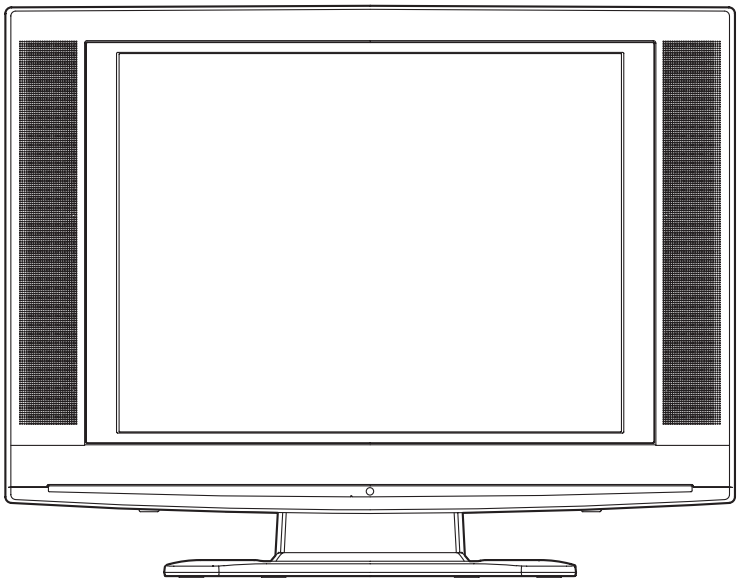
SYLVANIA

SERVICE MANUAL

Model 6620LDT and 6620LDG have A version and non-A version types. This service manual is for the 6620LDT and 6620LDG non-A verion models.
For the A version models, suffix A is printed to the model number as 6620LDT A and 6620LDG A on the Rating Label, and for the non-A version models, suffix A is not printed to the model number.
Refer to the Rating Label on the back of the unit to make sure model types.

20″ LCD TV/DVD

6620LDT/6620LDG



IMPORTANT SAFETY NOTICE

Proper service and repair is important to the safe, reliable operation of all Funai Equipment. The service procedures recommended by Funai and described in this service manual are effective methods of performing service operations. Some of these service special tools should be used when and as recommended.

It is important to note that this service manual contains various CAUTIONS and NOTICES which should be carefully read in order to minimize the risk of personal injury to service personnel. The possibility exists that improper service methods may damage the equipment. It also is important to understand that these CAUTIONS and NOTICES ARE NOT EXHAUSTIVE. Funai could not possibly know, evaluate and advice the service trade of all conceivable ways in which service might be done or of the possible hazardous consequences of each way. Consequently, Funai has not undertaken any such broad evaluation. Accordingly, a servicer who uses a service procedure or tool which is not recommended by Funai must first use all precautions thoroughly so that neither his safety nor the safe operation of the equipment will be jeopardized by the service method selected.

The LCD panel is manufactured to provide many years of useful life. Occasionally a few non active pixels may appear as a tiny spec of color. This is not to be considered a defect in the LCD screen.

Manufactured under license from Dolby Laboratories.
“Dolby” and the double-D symbol are trademarks of Dolby Laboratories.

TABLE OF CONTENTS

Specifications 1-1
Laser Beam Safety Precautions 2-1
Important Safety Precautions 3-1
Standard Notes for Servicing 4-1
Cabinet Disassembly Instructions 5-1
Electrical Adjustment Instructions 6-1
How to Initialize the LCD TV/DVD 7-1
Firmware Renewal Mode 8-1
Block Diagrams 9-1
Schematic Diagrams / CBA's and Test Points 10-1
Waveforms 11-1
Wiring Diagram 12-1
System Control Timing Charts 13-1
Lead Identifications 14-1
Exploded Views 15-1
Mechanical Parts List 16-1
Electrical Parts List 17-1

SPECIFICATIONS

< LCD TV Section >

< TUNER >

VHF/UHF Input : 75 ohm Unbal., F type

Intermediate Freq. : Picture 45.75 MHz, Sound 41.25 MHz

Description	Condition	Unit	Nominal	Limit
1. Video S/N	80dB	dB	45	40
2. Audio S/N	80dB	dB	45	40/40

< LCD PANEL >

Description	Condition	Unit	Nominal	Limit
1. Number of Pixels	Horizontal Vertical	pixels pixels	640 × 3 480	--- ---
2. Viewing Angle	Horizontal Vertical	° °	-85 to 85 -85 to 70	--- ---

< VIDEO >

Description	Condition	Unit	Nominal	Limit
1. Over Scan	Horizontal Vertical	% %	94 94	89 to 99 89 to 99
2. Color Temperature	AT 80% WHITE FIELD x y	°K	11000-10MPCD 0.276 0.282	--- ±0.03 ±0.03
3. Resolution	Horizontal Vertical	line line	270 350	220 300
4. Brightness	AT 100% WHITE FIELD BRT/CNT MAX	cd/m^2	450	---

< AUDIO >

All items are measured across 8 Ω load at speaker output terminal with L.P.F.

Description	Condition	Unit	Nominal	Limit
1. Audio Output Power	10% THD: Lch/Rch	W	1.0/1.0	0.8/0.8
2. Audio Distortion	500mW: Lch/Rch	%	1.0/1.0	4.0/4.0
3. Audio Freq. Response	–6dB: Lch –6dB: Rch	Hz Hz	100 to 12 k 100 to 12 k	--- ---
4. Audio S/N	VIDEO1 VIDEO2	dB dB	50 50	40/40 40/40

Note: Nominal specifications represent the design specifications. All units should be able to approximate these. Some will exceed and some may drop slightly below these specifications. Limit specifications represent the absolute worst condition that still might be considered acceptable. In no case should a unit fail to meet limit specifications.

< DVD Section >

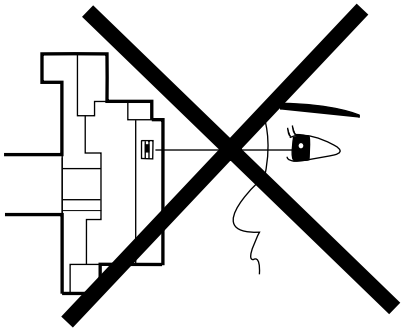
Description		Condition	Unit	Nominal	Limit
1. Horizontal Resolution (TDV-540 TIT.2 CHP.16)		---	Line	350	330
2. Video S/N (TDV-540 TIT.2 CHP.6)		---	dB	60	55
3. S/N Chroma (TDV-540 TIT.2 CHP.17)	AM	---	dB	58	53
	PM	---	dB	58	53
4. Audio distortion (LPCM 48 kHz, W/LPF) (PTD 1-NOR TIT.1 CHP.1)		L R	%	0.03	0.07
5. Audio freq. response (LPCM 48 kHz) (PTD 1-NOR TIT.1 CHP.5 -- 10)		L, 20 Hz R, 20 Hz L, 20 kHz R, 20 kHz	dB	0	+4/-5
6. Audio S/N (LPCM 48 kHz,W/LPF,A-WTD) (PTD 1-NOR TIT.1 CHP.1 -- 2)		L R	dB	85	75

NOTES:

1. All Items are measured without pre-emphasis unless otherwise specified.
2. Power supply : AC120 V, 60 Hz
3. Ambient temperature: +25 °C

LASER BEAM SAFETY PRECAUTIONS

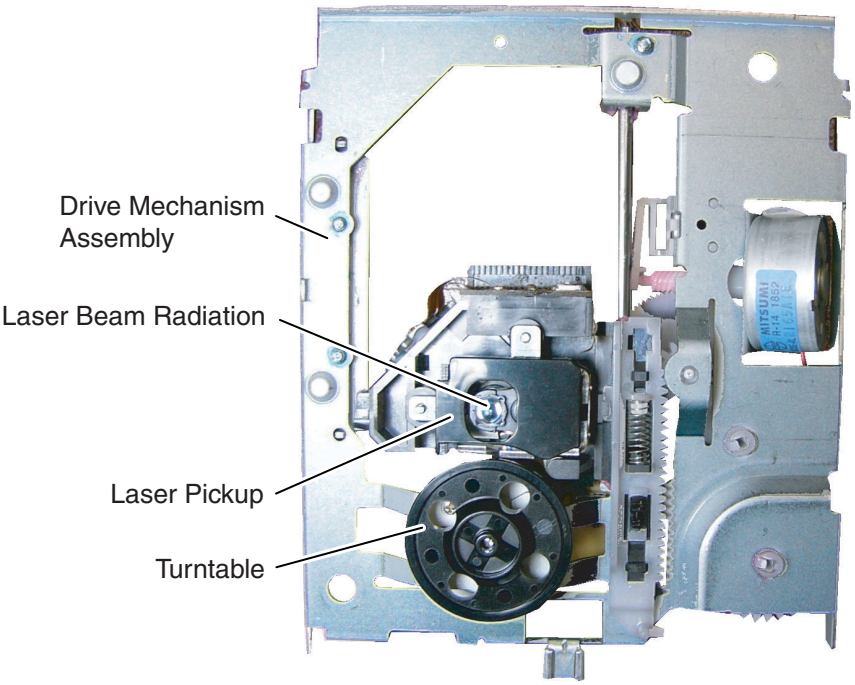
This DVD player uses a pickup that emits a laser beam.



Do not look directly at the laser beam coming from the pickup or allow it to strike against your skin.

The laser beam is emitted from the location shown in the figure. When checking the laser diode, be sure to keep your eyes at least 30 cm away from the pickup lens when the diode is turned on. Do not look directly at the laser beam.

CAUTION: Use of controls and adjustments, or doing procedures other than those specified herein, may result in hazardous radiation exposure.



CAUTION
LASER RADIATION
WHEN OPEN. DO NOT
STARE INTO BEAM.

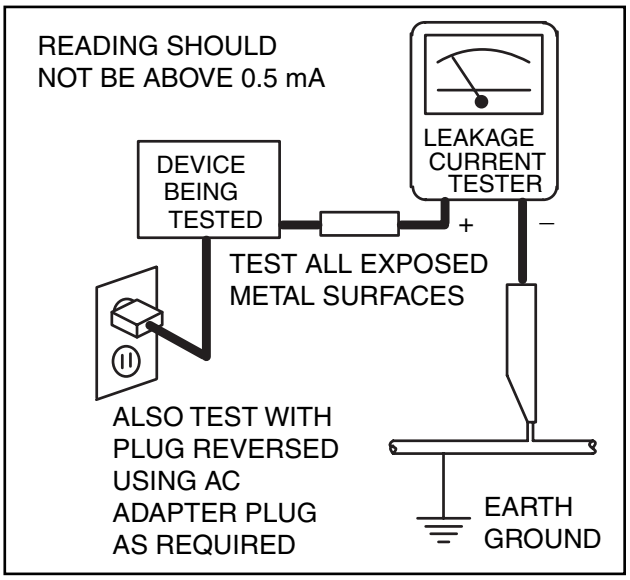
Location: Top of DVD mechanism.

IMPORTANT SAFETY PRECAUTIONS

Prior to shipment from the factory, our products are strictly inspected for recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

Safety Precautions for LCD TV Circuit

1. **Before returning an instrument to the customer,** always make a safety check of the entire instrument, including, but not limited to, the following items:
   - **a.** Be sure that no built-in protective devices are defective and have been defeated during servicing. (1) Protective shields are provided on this chassis to protect both the technician and the customer. Correctly replace all missing protective shields, including any removed for servicing convenience. (2) When reinstalling the chassis and/or other assembly in the cabinet, be sure to put back in place all protective devices, including but not limited to, nonmetallic control knobs, insulating fishpapers, adjustment and compartment covers/shields, and isolation resistor/capacitor networks. **Do not operate this instrument or permit it to be operated without all protective devices correctly installed and functioning. Servicers who defeat safety features or fail to perform safety checks may be liable for any resulting damage.**
   - **b.** Be sure that there are no cabinet openings through which an adult or child might be able to insert their fingers and contact a hazardous voltage. Such openings include, but are not limited to, (1) spacing between the Liquid Crystal Panel and the cabinet mask, (2) excessively wide cabinet ventilation slots, and (3) an improperly fitted and/or incorrectly secured cabinet back cover.
   - **c. Antenna Cold Check -** With the instrument AC plug removed from any AC source, connect an electrical jumper across the two AC plug prongs. Place the instrument AC switch in the on position. Connect one lead of an ohmmeter to the AC plug prongs tied together and touch the other ohmmeter lead in turn to each tuner antenna input exposed terminal screw and, if applicable, to the coaxial connector. If the measured resistance is less than 1.0 megohm or greater than 5.2 megohm, an abnormality exists that must be corrected before the instrument is returned to the customer. Repeat this test with the instrument AC switch in the off position.
   - **d. Leakage Current Hot Check -** With the instrument completely reassembled, plug the AC line cord directly into a 120 V AC outlet. (Do not use an isolation transformer during this test.) Use a leakage current tester or a metering system that complies with American National Standards Institute (ANSI) C101.1 Leakage Current for Appliances and Underwriters Laboratories (UL) 1410, (50.7). With the instrument AC switch first in the on position and then in the off position, measure from a known earth ground (metal water pipe, conduit, etc.) to all exposed metal parts of the instrument (antennas, handle brackets, metal cabinet, screw heads, metallic overlays, control shafts, etc.), especially any exposed metal parts that offer an electrical return path to the chassis. Any current measured must not exceed 0.5 milli-ampere. Reverse the instrument power cord plug in the outlet and repeat the test.



ANY MEASUREMENTS NOT WITHIN THE LIMITS SPECIFIED HEREIN INDICATE A POTENTIAL SHOCK HAZARD THAT MUST BE ELIMINATED BEFORE RETURNING THE INSTRUMENT TO THE CUSTOMER OR BEFORE CONNECTING THE ANTENNA OR ACCESSORIES.

2. Read and comply with all caution and safety-related notes on or inside the receiver cabinet, on the receiver chassis, or on the Liquid Crystal Panel.

3. **Design Alteration Warning -** Do not alter or add to the mechanical or electrical design of this TV receiver. Design alterations and additions, including, but not limited to circuit modifications and the addition of items such as auxiliary audio and/or video output connections, might alter the safety characteristics of this receiver and create a hazard to the user. Any design alterations or additions will void the manufacturer's warranty and may make you, the servicer, responsible for personal injury or property damage resulting therefrom.
4. **Hot Chassis Warning -**
   a. Some TV receiver chassis are electrically connected directly to one conductor of the AC power cord and maybe safety-serviced without an isolation transformer only if the AC power plug is inserted so that the chassis is connected to the ground side of the AC power source. To confirm that the AC power plug is inserted correctly, with an AC voltmeter, measure between the chassis and a known earth ground. If a voltage reading in excess of 1.0V is obtained, remove and reinsert the AC power plug in the opposite polarity and again measure the voltage potential between the chassis and a known earth ground.
   b. Some TV receiver chassis normally have 85V AC(RMS) between chassis and earth ground regardless of the AC plug polarity. This chassis can be safety-serviced only with an isolation transformer inserted in the power line between the receiver and the AC power source, for both personnel and test equipment protection.
   c. Some TV receiver chassis have a secondary ground system in addition to the main chassis ground. This secondary ground system is not isolated from the AC power line. The two ground systems are electrically separated by insulation material that must not be defeated or altered.
5. Observe original lead dress. Take extra care to assure correct lead dress in the following areas: a. near sharp edges, b. near thermally hot parts-be sure that leads and components do not touch thermally hot parts, c. the AC supply, d. high voltage, and, e. antenna wiring. Always inspect in all areas for pinched, out of place, or frayed wiring. Check AC power cord for damage.
6. Components, parts, and/or wiring that appear to have overheated or are otherwise damaged should be replaced with components, parts, or wiring that meet original specifications. Additionally, determine the cause of overheating and/or damage and, if necessary, take corrective action to remove any potential safety hazard.
7. **Product Safety Notice -** Some electrical and mechanical parts have special safety-related characteristics which are often not evident from visual inspection, nor can the protection they give necessarily be obtained by replacing them with components rated for higher voltage, wattage, etc. Parts that have special safety characteristics are identified by a ⚠ on schematics and in parts lists. Use of a substitute replacement that does not have the same safety characteristics as the recommended replacement part might create shock, fire, and/or other hazards. The product's safety is under review continuously and new instructions are issued whenever appropriate. Prior to shipment from the factory, our products are strictly inspected to confirm they comply with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

Precautions during Servicing

A. Parts identified by the ⚠ symbol are critical for safety.
Replace only with part number specified.

B. In addition to safety, other parts and assemblies are specified for conformance with regulations applying to spurious radiation. These must also be replaced only with specified replacements.
Examples: RF converters, RF cables, noise blocking capacitors, and noise blocking filters, etc.

C. Use specified internal wiring. Note especially:
1) Wires covered with PVC tubing
2) Double insulated wires
3) High voltage leads

D. Use specified insulating materials for hazardous live parts. Note especially:
1) Insulation Tape
2) PVC tubing
3) Spacers
4) Insulators for transistors.

E. When replacing AC primary side components (transformers, power cord, etc.), wrap ends of wires securely about the terminals before soldering.

F. Observe that the wires do not contact heat producing parts (heat sinks, oxide metal film resistors, fusible resistors, etc.)

G. Check that replaced wires do not contact sharp edged or pointed parts.

H. When a power cord has been replaced, check that 5~6 kg of force in any direction will not loosen it.

I. Also check areas surrounding repaired locations.

J. Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

K. Crimp type wire connector
The power transformer uses crimp type connectors which connect the power cord and the primary side of the transformer. When replacing the transformer, follow these steps carefully and precisely to prevent shock hazards.
Replacement procedure
1) Remove the old connector by cutting the wires at a point close to the connector.
Important: Do not re-use a connector (discard it).
2) Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid frayed conductors.
3) Align the lengths of the wires to be connected. Insert the wires fully into the connector.
4) Use the crimping tool to crimp the metal sleeve at the center position. Be sure to crimp fully to the complete closure of the tool.

L. When connecting or disconnecting the internal connectors, first, disconnect the AC plug from the AC supply outlet.

M. When installing parts or assembling the cabinet parts, be sure to use the proper screws and tighten certainly.

Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions. Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

1. Clearance Distance

When replacing primary circuit components, confirm specified clearance distance (d) and (d') between soldered terminals, and between terminals and surrounding metallic parts. (See Fig. 1)

Table 1: Ratings for selected area

AC Line Voltage	Region	Clearance Distance (d), (d')
110 to 130 V	U.S.A. or Canada	≥ 3.2 mm (0.126 inches)

Note: This table is unofficial and for reference only. Be sure to confirm the precise values.

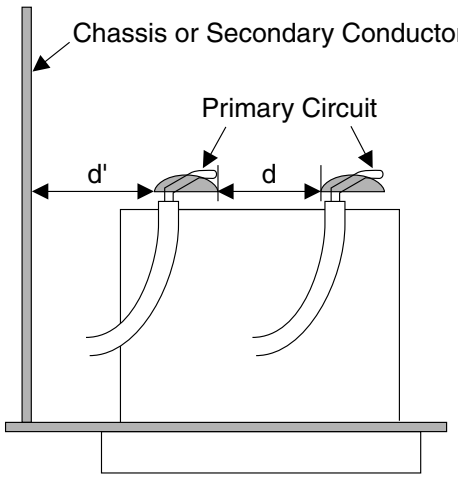


Fig. 1

2. Leakage Current Test

Confirm the specified (or lower) leakage current between B (earth ground, power cord plug prongs) and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.) is lower than or equal to the specified value in the table below.

Measuring Method: (Power ON)

Insert load Z between B (earth ground, power cord plug prongs) and exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See Fig. 2 and following table.

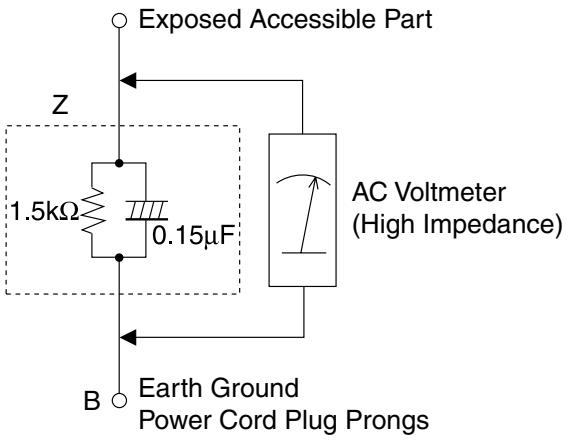


Fig. 2

Table 2: Leakage current ratings for selected areas

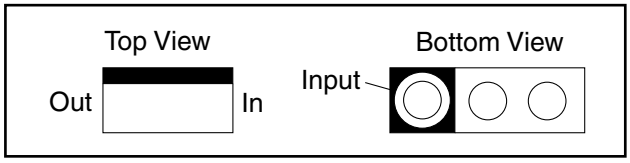
AC Line Voltage	Region	Load Z	Leakage Current (i)	Earth Ground (B) to:
110 to 130 V	U.S.A. or Canada	0.15 μF CAP. & 1.5 kΩ RES. Connected in parallel	i ≤ 0.5 mA rms	Exposed accessible parts

Note: This table is unofficial and for reference only. Be sure to confirm the precise values.

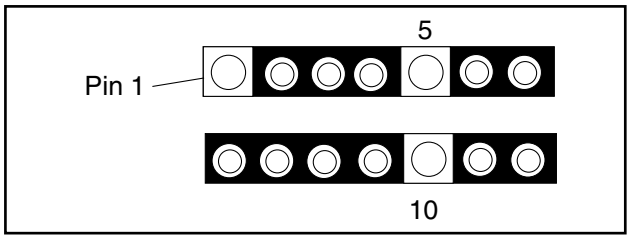
STANDARD NOTES FOR SERVICING

Circuit Board Indications

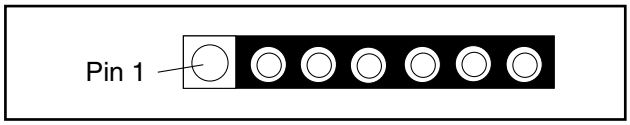
1. The output pin of the 3 pin Regulator ICs is indicated as shown.



2. For other ICs, pin 1 and every fifth pin are indicated as shown.

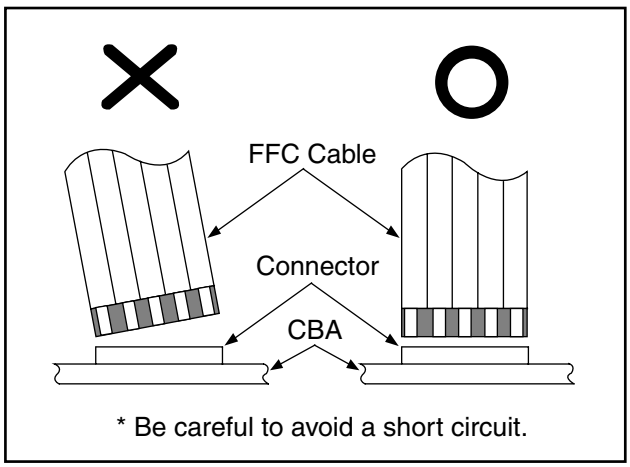


3. The 1st pin of every male connector is indicated as shown.



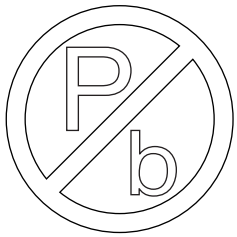
Instructions for Connectors

1. When you connect or disconnect the FFC (Flexible Foil Connector) cable, be sure to first disconnect the AC cord.
2. FFC (Flexible Foil Connector) cable should be inserted parallel into the connector, not at an angle.



Pb (Lead) Free Solder

Pb free mark will be found on PCBs which use Pb free solder. (Refer to figure.) For PCBs with Pb free mark, be sure to use Pb free solder. For PCBs without Pb free mark, use standard solder.



Pb free mark

How to Remove / Install Flat Pack-IC

1. Removal

With Hot-Air Flat Pack-IC Desoldering Machine:

1. Prepare the hot-air flat pack-IC desoldering machine, then apply hot air to the Flat Pack-IC (about 5 to 6 seconds). (Fig. S-1-1)

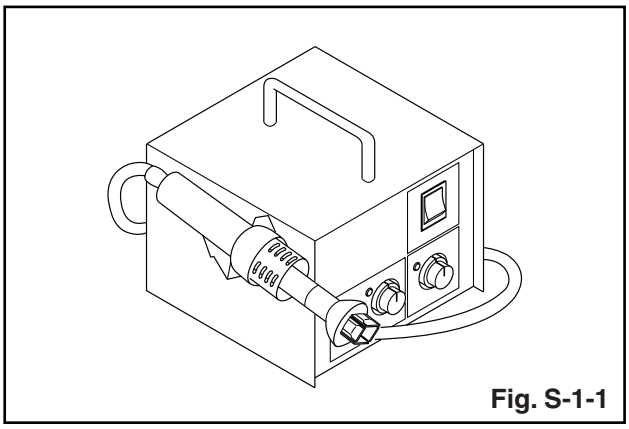


Fig. S-1-1

2. Remove the flat pack-IC with tweezers while applying the hot air.
3. Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
4. Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

CAUTION:

1. The Flat Pack-IC shape may differ by models. Use an appropriate hot-air flat pack-IC desoldering machine, whose shape matches that of the Flat Pack-IC.
2. Do not supply hot air to the chip parts around the flat pack-IC for over 6 seconds because damage to the chip parts may occur. Put masking tape

around the flat pack-IC to protect other parts from damage. (Fig. S-1-2)

3. The flat pack-IC on the CBA is affixed with glue, so be careful not to break or damage the foil of each pin or the solder lands under the IC when removing it.

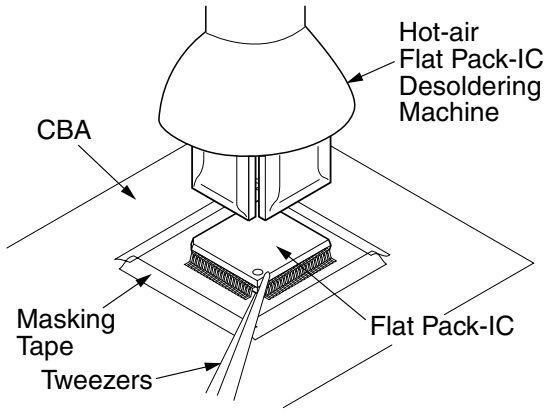


Fig. S-1-2

With Soldering Iron:

1. Using desoldering braid, remove the solder from all pins of the flat pack-IC. When you use solder flux which is applied to all pins of the flat pack-IC, you can remove it easily. (Fig. S-1-3)

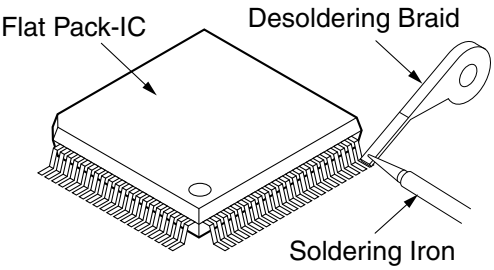


Fig. S-1-3

2. Lift each lead of the flat pack-IC upward one by one, using a sharp pin or wire to which solder will not adhere (iron wire). When heating the pins, use a fine tip soldering iron or a hot air desoldering machine. (Fig. S-1-4)

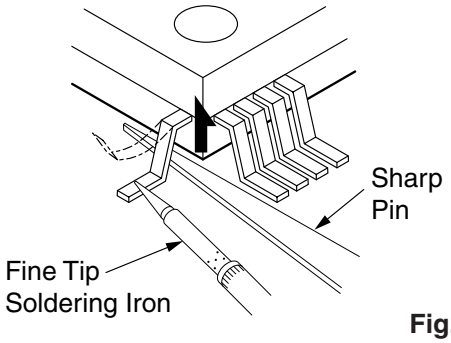


Fig. S-1-4

3. Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
4. Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

With Iron Wire:

1. Using desoldering braid, remove the solder from all pins of the flat pack-IC. When you use solder flux which is applied to all pins of the flat pack-IC, you can remove it easily. (Fig. S-1-3)
2. Affix the wire to a workbench or solid mounting point, as shown in Fig. S-1-5.
3. While heating the pins using a fine tip soldering iron or hot air blower, pull up the wire as the solder melts so as to lift the IC leads from the CBA contact pads as shown in Fig. S-1-5.
4. Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
5. Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

Note: When using a soldering iron, care must be taken to ensure that the flat pack-IC is not being held by glue. When the flat pack-IC is removed from the CBA, handle it gently because it may be damaged if force is applied.

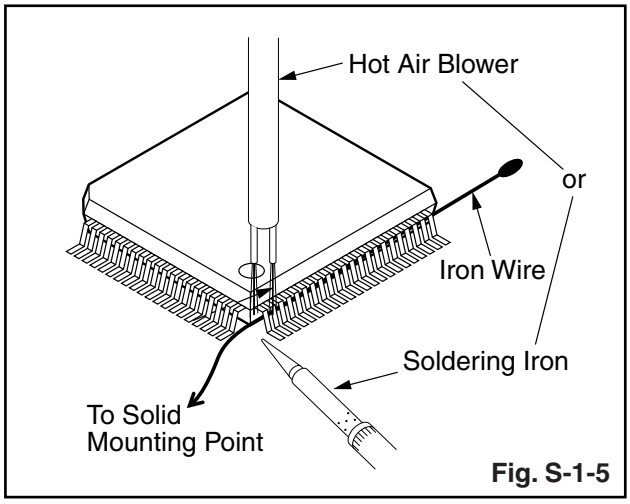


Fig. S-1-5

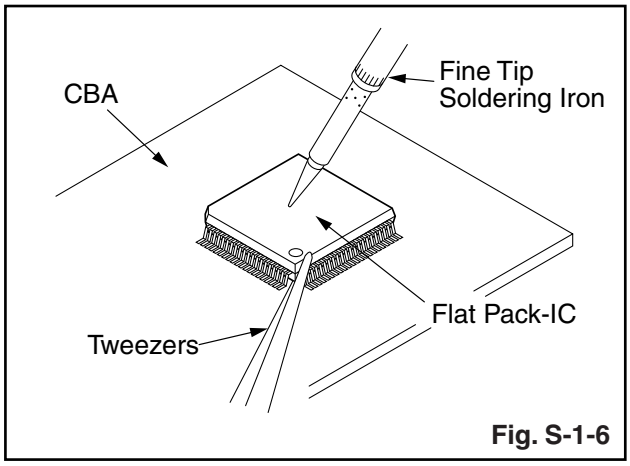


Fig. S-1-6

2. Installation

1. Using desoldering braid, remove the solder from the foil of each pin of the flat pack-IC on the CBA so you can install a replacement flat pack-IC more easily.
2. The "●" mark on the flat pack-IC indicates pin 1. (See Fig. S-1-7.) Be sure this mark matches the 1 on the PCB when positioning for installation. Then presolder the four corners of the flat pack-IC. (See Fig. S-1-8.)
3. Solder all pins of the flat pack-IC. Be sure that none of the pins have solder bridges.

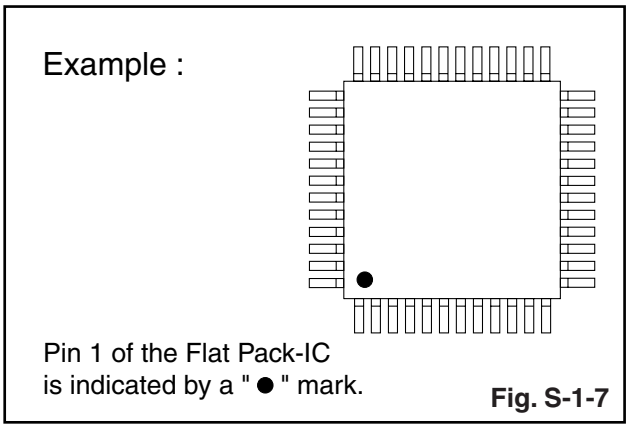


Fig. S-1-7

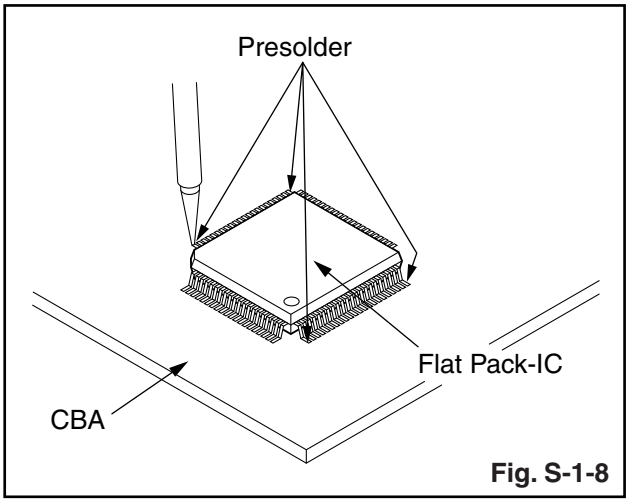


Fig. S-1-8

Instructions for Handling Semi-conductors

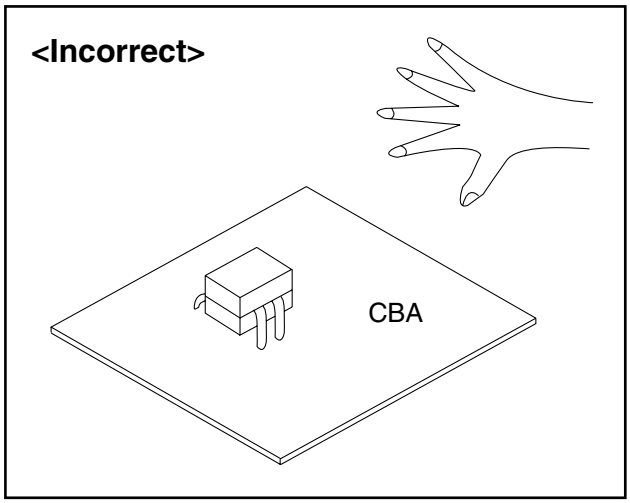
Electrostatic breakdown of the semi-conductors may occur due to a potential difference caused by electrostatic charge during unpacking or repair work.

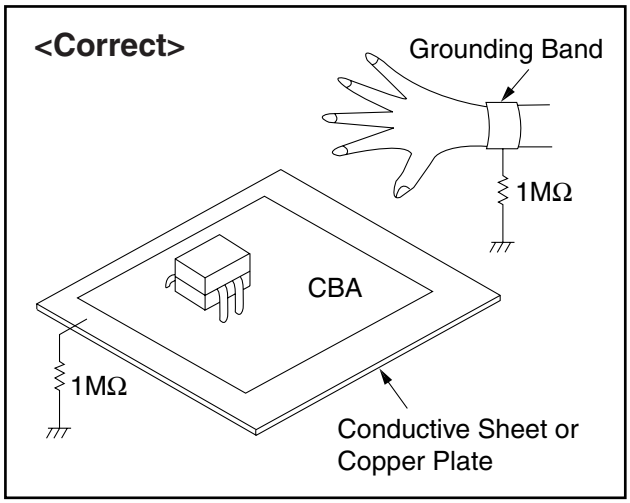
1. Ground for Human Body

Be sure to wear a grounding band (1 MΩ) that is properly grounded to remove any static electricity that may be charged on the body.

2. Ground for Workbench

Be sure to place a conductive sheet or copper plate with proper grounding (1 MΩ) on the workbench or other surface, where the semi-conductors are to be placed. Because the static electricity charge on clothing will not escape through the body grounding band, be careful to avoid contacting semi-conductors with your clothing.

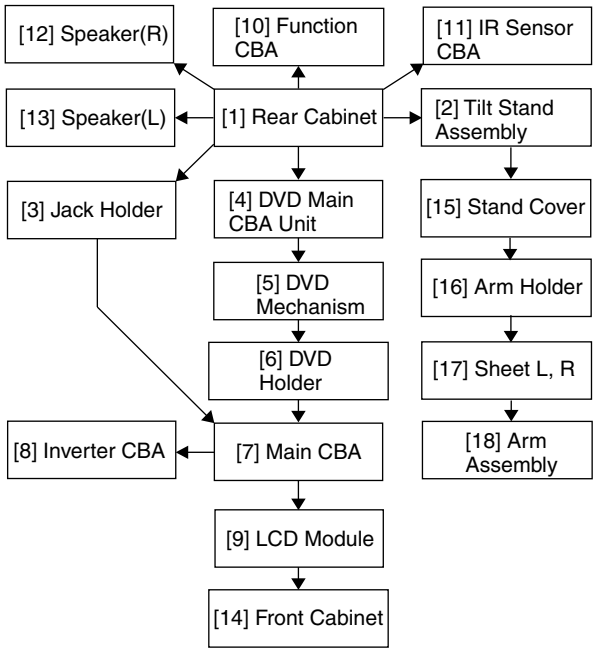




CABINET DISASSEMBLY INSTRUCTIONS

1. Disassembly Flowchart

This flowchart indicates the disassembly steps for the cabinet parts, and the CBA in order to gain access to item(s) to be serviced. When reassembling, follow the steps in reverse order. Bend, route and dress the cables as they were.



2. Disassembly Method

Step/ Loc. No.	Part	Removal		
		Fig. No.	Remove/*Unhook/ Unlock/Release/ Unplug/Unclamp/ Desolder	Note
[1]	Rear Cabinet	D1	10(S-1), (S-2)	---
[2]	Tilt Stand Assembly	D1	4(S-3)	---
[3]	Jack Holder	D2	4(S-4)	---
[4]	DVD Main CBA Unit	D2 D6	(S-5), *CN201, *CN301, *CN401, *CN601, *CN801	1
[5]	DVD Mechanism	D2	4(S-6)	2 3
[6]	DVD Holder	D2	1(S-7)	---
[7]	Main CBA	D3 D6	6(S-8), *CN404, *CN801, *CN1201, *CN1202, *CN1205, *CN1206, *CN1207	---
[8]	Inverter CBA	D3 D6	4(S-9), *CN301, *CN302, *CN303, *CN310	---
[9]	LCD Module	D4	9(S-10)	---
[10]	Function CBA	D4	3(S-11)	---
[11]	IR Sensor CBA	D4	(S-12)	---
[12]	Speaker(R)	D4	2(S-13), Speaker Holder (s)	---
[13]	Speaker(L)	D4	2(S-14), Speaker Holder (s)	---
[14]	Front Cabinet	D4	----------	---
[15]	Stand Cover	D5	6(S-15)	---
[16]	Arm Holder	D5	2(S-16)	---
[17]	Sheet L, R	D5	----------	---
[18]	Arm Assembly	D5	----------	---
		↓ (3)	↓ (4)	↓ (5)

(1) (2)

Note:

(1) Order of steps in procedure. When reassembling, follow the steps in reverse order. These numbers are also used as the Identification (location) No. of parts in figures.

(2) Parts to be removed or installed.

(3) Fig. No. showing procedure of part location

(4) Identification of parts to be removed, unhooked, unlocked, released, unplugged, unclamped, or desoldered.
P = Spring, L = Locking Tab, S = Screw,
CN = Connector
* = Unhook, Unlock, Release, Unplug, or Desolder
e.g. 2(S-2) = two Screws (S-2),
2(L-2) = two Locking Tabs (L-2)

(5) Refer to the following "Reference Notes in the Table."

Reference Notes

1. **CAUTION 1:** Electrostatic breakdown of the laser diode in the optical system block may occur as a potential difference caused by electrostatic charge accumulated on cloth, human body etc., during unpacking or repair work.
   To avoid damage of pickup follow next procedures.
   1) Short the three short lands of FPC cable with solder before removing the FFC cable (CN201) from it. If you disconnect the FFC cable (CN201), the laser diode of pickup will be destroyed. (Fig. D2)
   2) Disconnect Connectors (CN301), (CN401), (CN601) and (CN801). Remove three Screws (S-7) and remove the DVD Main CBA Unit. (Fig. D2)
2. **Reassembly Notes of New DVD Mechanism:**
   a. To remove the Chassis Cover, remove four screws A as shown in Fig. D2.
   b. To avoid damage of the pickup unit (laser diode), confirm that the three short lands (either of two places) are shorted out by soldering between them as shown in View A in Fig. D2.
   c. Connect the FFC cables of the new DVD Mechanism to the three connectors (CN201, CN301, CN801) on the DVD Main CBA.
   d. After confirming that the FFC cables are securely connected to the three connectors, remove the solder from the three short lands. If the solder is not removed, the laser diode will not light and it will not be possible to read discs.
   e. Insert the pin A on the Chassis Cover into the hole A on the Main Chassis as shown in Fig. D2. Then tighten four screws A to install the Chassis Cover.
3. **CAUTION 2:** When reassembling, confirm the FFC cable (CN201) is connected completely. Then remove the solder from the three short lands of FPC cable. (Fig. D2)
4. **How to eject a disc in emergency**
   Press and hold [EJECT] on the unit for more than 5 seconds.

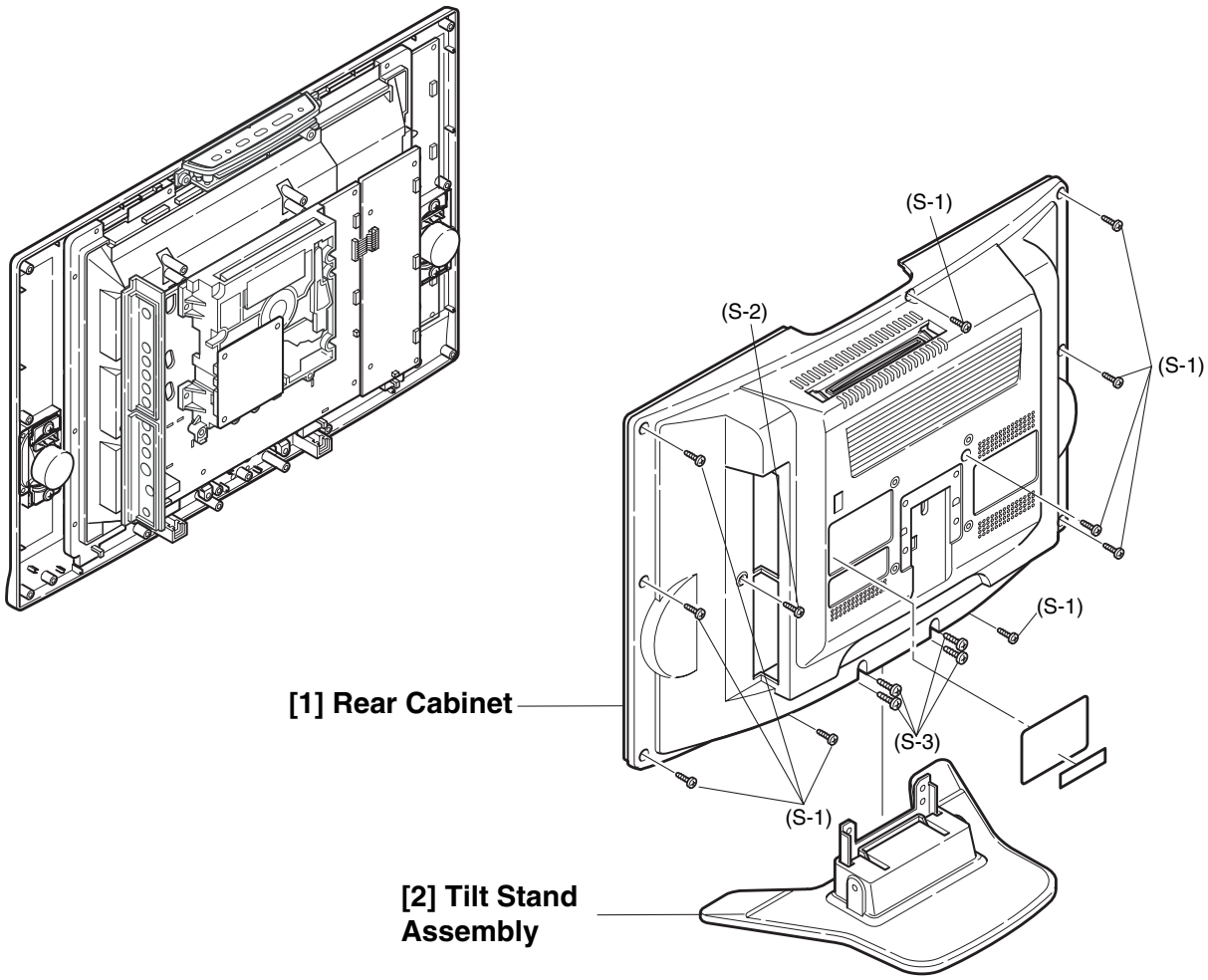
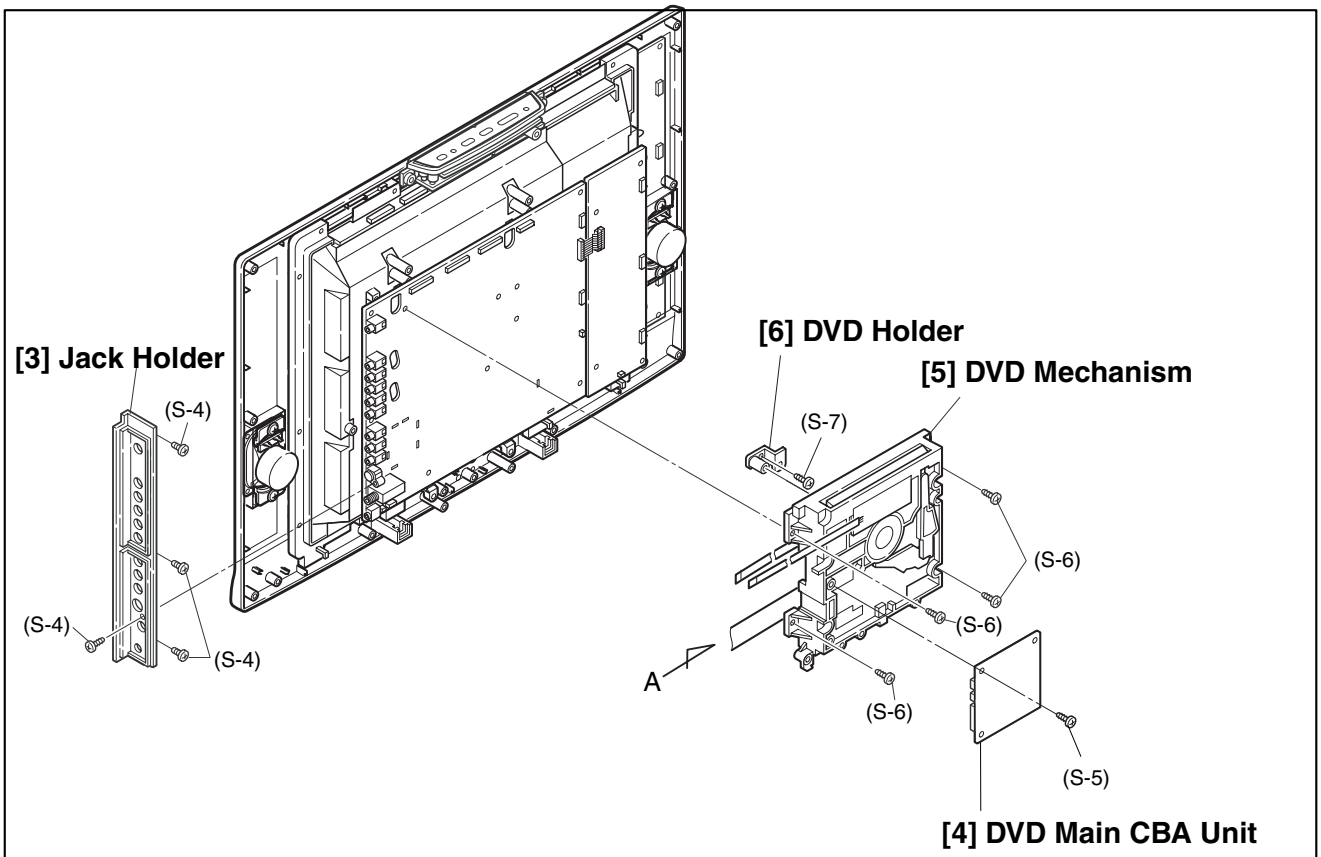
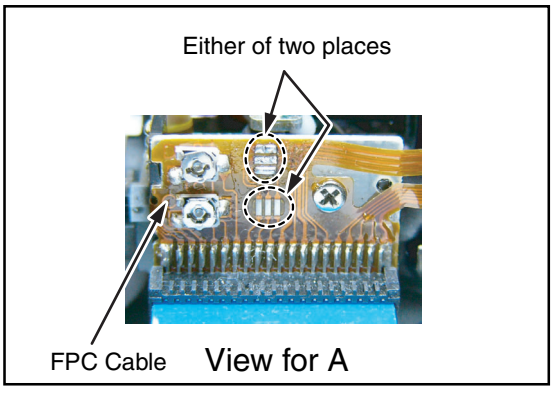


Fig. D1



Remove two screws A, then short the three short lands by soldering as shown in View for A.



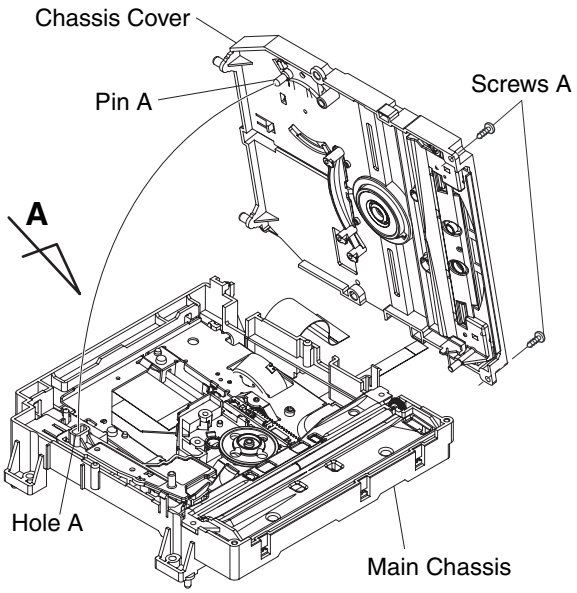


Fig. D2

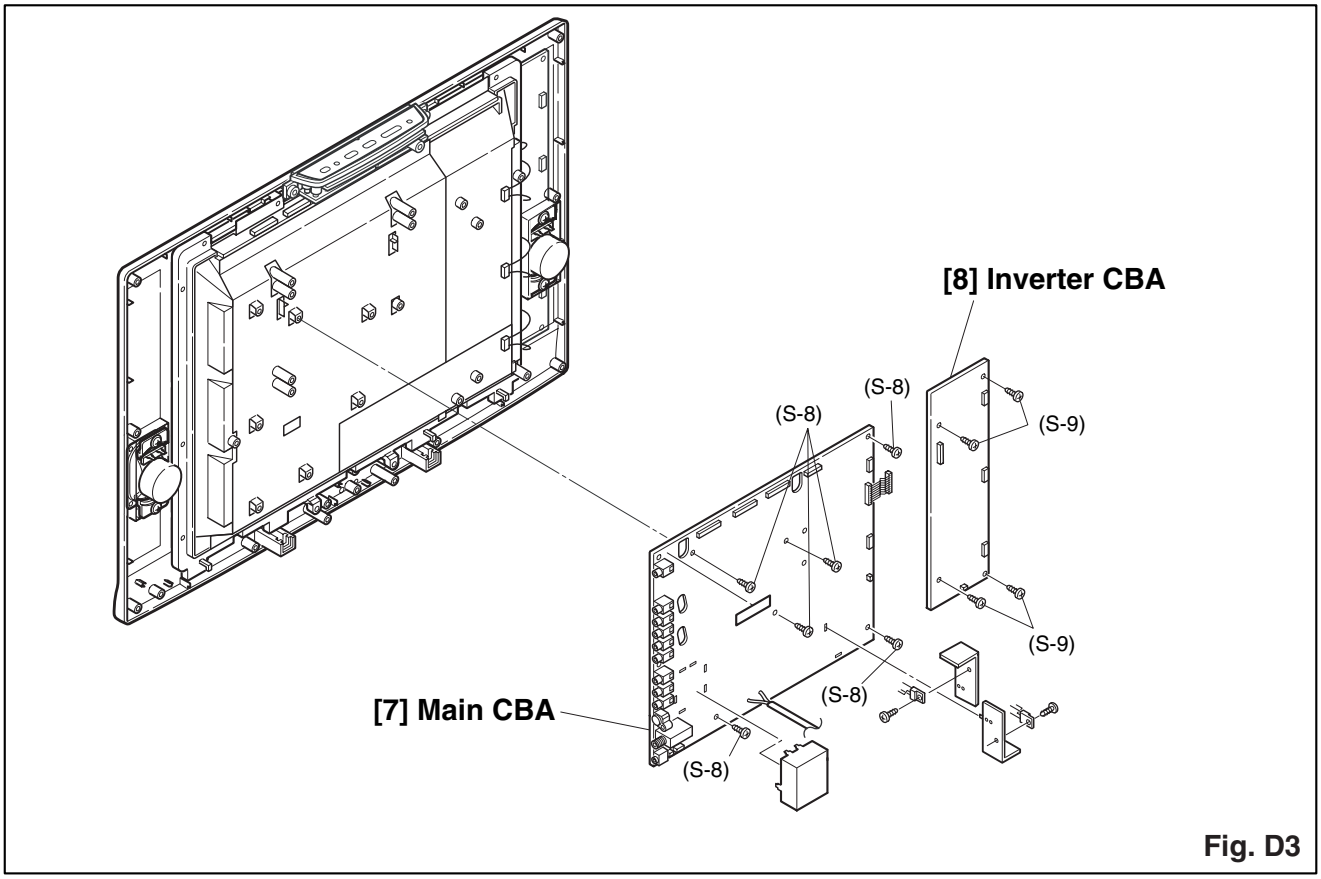


Fig. D3

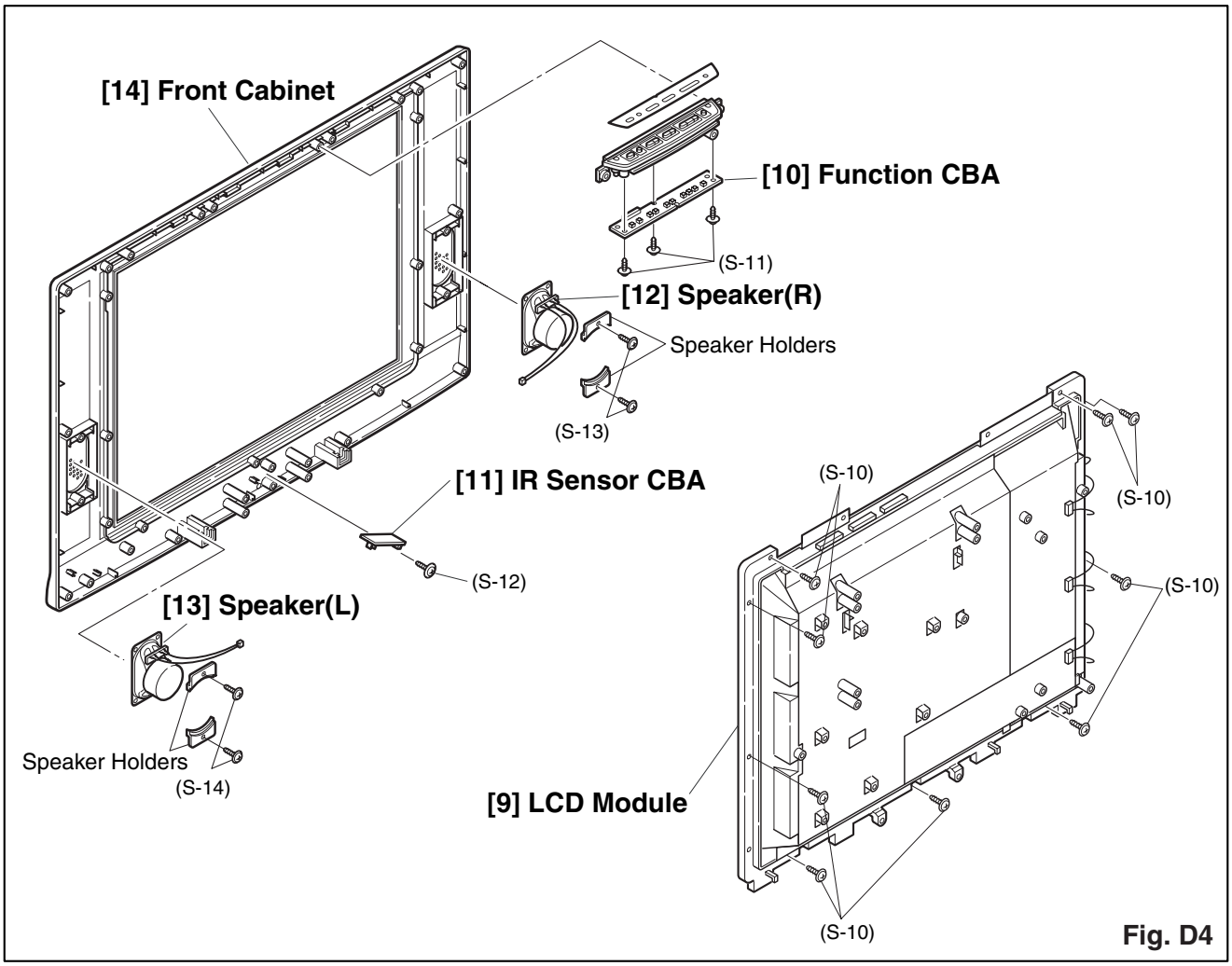

[14] Front Cabinet
[10] Function CBA
(S-11)
[12] Speaker(R)
Speaker Holders
(S-13)
[11] IR Sensor CBA
(S-12)
[13] Speaker(L)
Speaker Holders
(S-14)
(S-10)
(S-10)
(S-10)
[9] LCD Module
(S-10)

Fig. D4

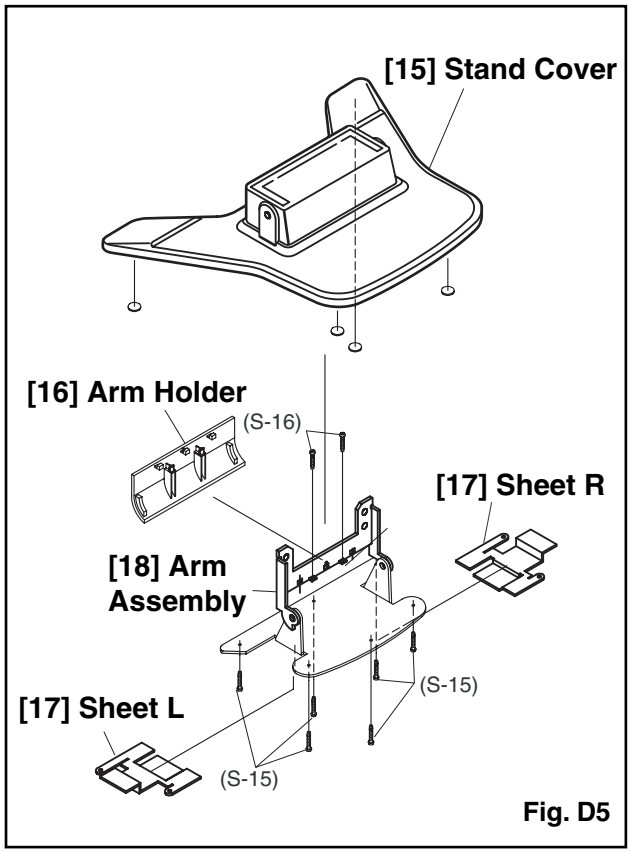

[15] Stand Cover
[16] Arm Holder
(S-16)
[17] Sheet R
[18] Arm Assembly
(S-15)
[17] Sheet L
(S-15)

Fig. D5

TV Cable Wiring Diagram

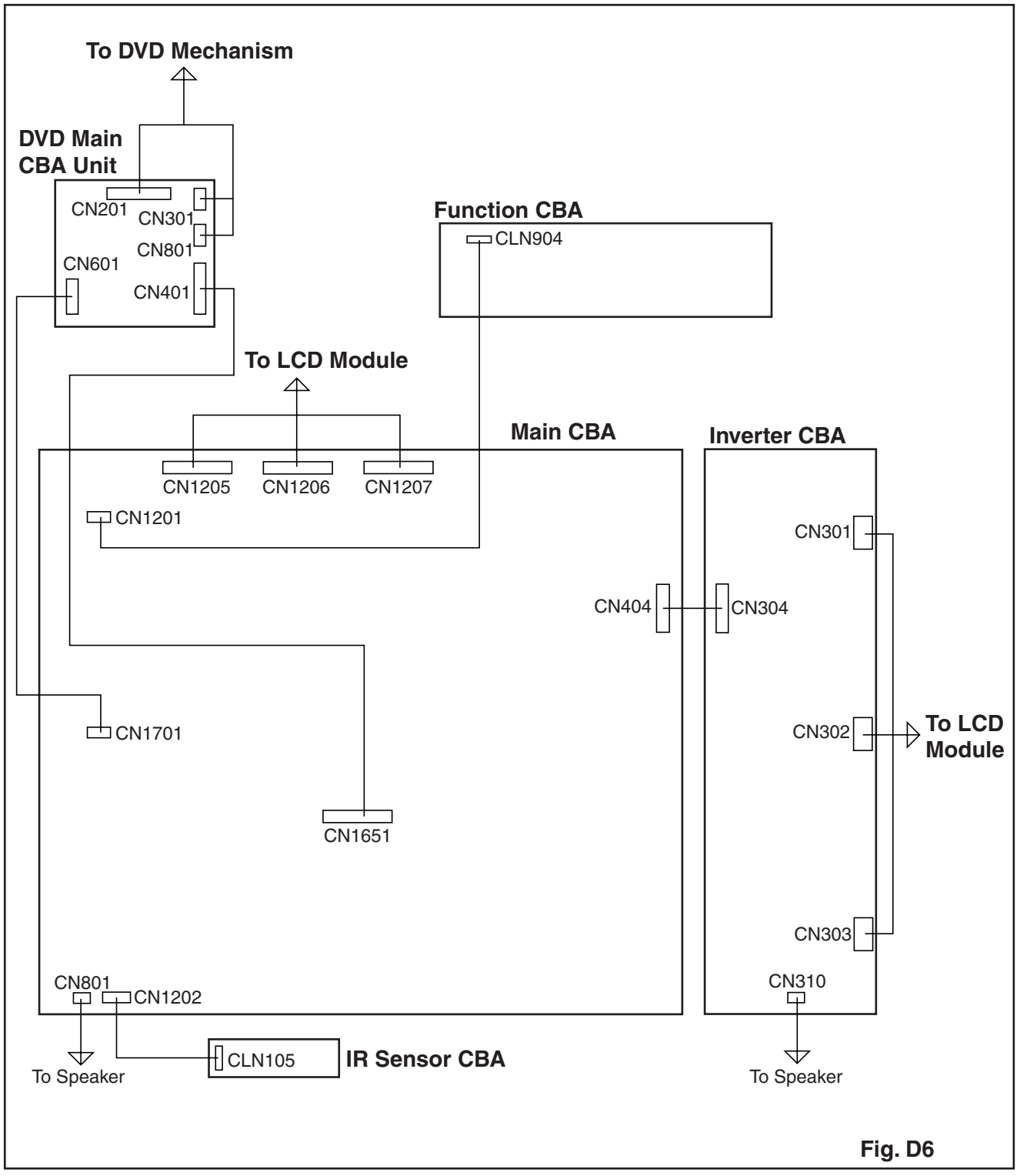


Fig. D6

3. How to Eject Manually

1. Remove the Rear Cabinet.
2. To remove the DVD Main CBA Unit, remove a screw (S-5) in Fig. D2. Do not disconnect connectors.
3. To remove the Chassis Cover, remove two screws A as shown in Fig. D7.
4. Remove a disc.

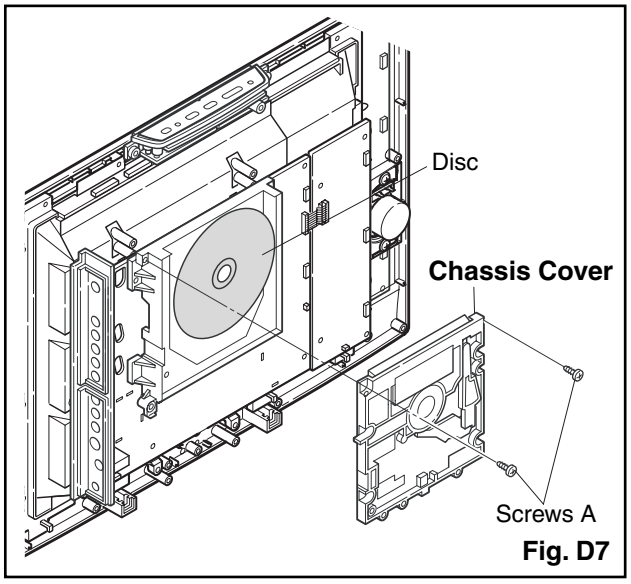


Fig. D7

Reassembly note of the Chassis Cover:

1. Insert the pin A on the Chassis Cover into the hole A on the Main Chassis as shown in Fig. D8.

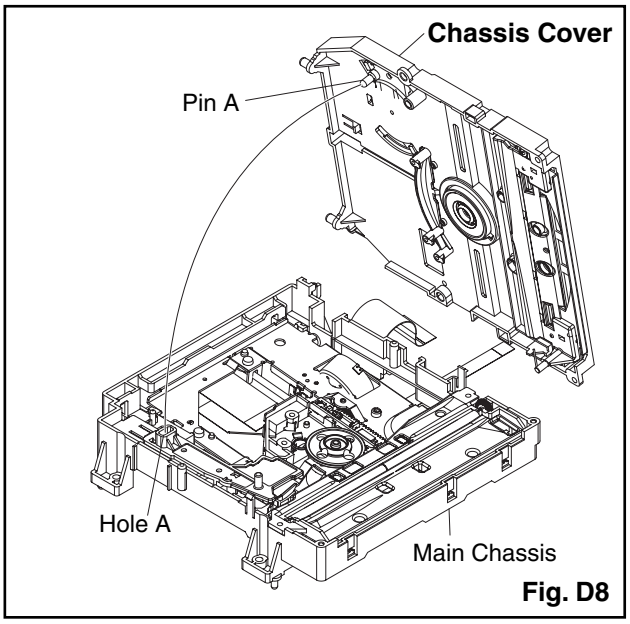


Fig. D8

2. Tighten two screws A as shown in Fig. D7.

ELECTRICAL ADJUSTMENT INSTRUCTIONS

General Note: "CBA" is abbreviation for "Circuit Board Assembly."

Note: Electrical adjustments are required after replacing circuit components and certain mechanical parts. It is important to perform these adjustments only after all repairs and replacements have been completed.
Also, do not attempt these adjustments unless the proper equipment is available.

Test Equipment Required

1. DC Voltmeter
2. NTSC Pattern Generator (Color Bar W/White Window, Red Color, Dot Pattern, Gray Scale, Monoscope, Multi-Burst)
3. Remote control unit: Part No. NE240UD
4. Color Analyzer

How to make Service remote control unit:

1. Prepare normal remote control unit (Part No. NE240UD). Remove 3 screws from the back lid (Fig. 1-1).

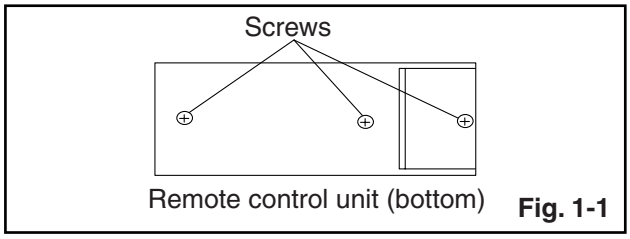


Fig. 1-1

2. Cut off pin 10 of the remote control microprocessor and short circuit pins 10 and 17 of the microprocessor with a jumper wire.

How to set up the service mode:

Service mode:

1. Use the service remote control unit.
2. Turn the power on. (Use main power on the TV unit.)
3. Press [DISC MENU] button on the service remote control unit. Version of micro computer will be displayed on the LCD or display. (Ex: A94FP-0.13)

1. Initial Setting

General: Enter the Service mode. (See page 6-1.)

Set the each initial data as shown on table 1 below.

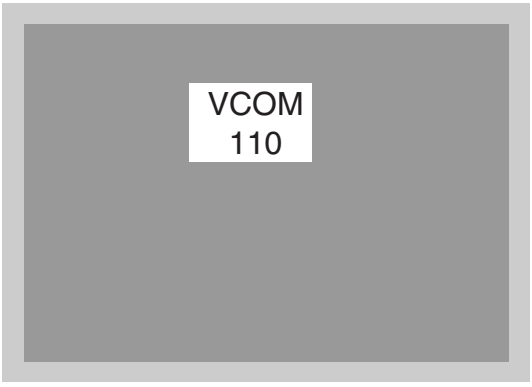
Table 1: Initial Data

Item	Button [Use the attached remote control unit. (not service remote control unit)]	Data Value
BRT	[MENU] → [1]	128
CNT		124
CLR-R		64
CLR-B		64
TNT		128
V-TNT		128
SHR		112
S-BRT	[MENU] → [2]	128
S-CNT		128
S-CLR-R		64
S-CLR-B		64
S-TNT		128
S-SHR		112
C-BRT	[MENU] → [3]	128
C-CNT		128
C-CLR-R		64
C-CLR-B		64
C-TNT		128
C-SHR		112

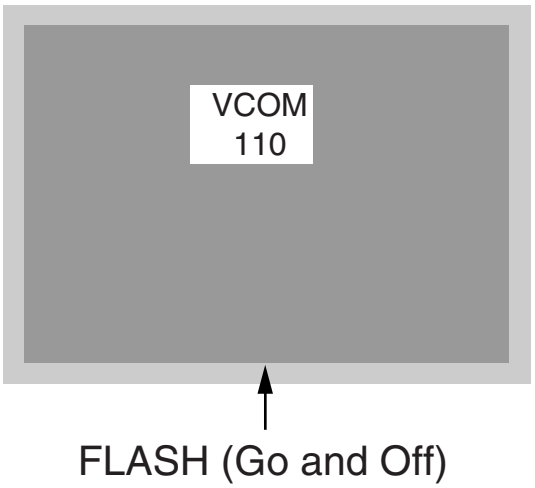
Item	Button [Use the attached remote control unit. (not service remote control unit)]	Data Value
D2-BRT	[MENU] → [5]	133
D2-CNT		140
D2-CLR-R		74
D2-CLR-B		74
D2-TNT		128
D2-SHR		112
D3-BRT	[MENU] → [6]	126
D3-CNT		138
D3-CLR-R		64
D3-CLR-B		64
D3-TNT		128
D3-SHR		112
DR(C/D1)	[VOL ▼] → [4]	177
DR(C/D2)		157
DB(C/D1)	[VOL ▼] → [6]	175
DB(C/D2)		152
COR(C/D1)	[VOL ▼] → [1]	131
COR(C/D2)		136
COB(C/D1)	[VOL ▼] → [3]	131
COB(C/D2)		136

2. Flicker Adjustment

1. Enter the Service mode. (See page 6-1.)
2. Press [2] button on the remote control unit. The following screen appears.



3. If Flicker Adjustment is not fit, the screen becomes the following.



4. Press [CH. ▲ / ▼] buttons on the remote control unit so that flash stops.

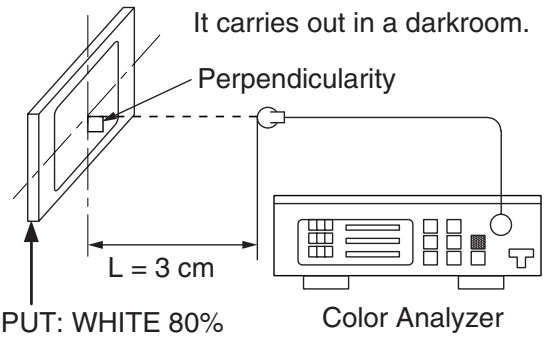
The following adjustment normally are not attempted in the field. Only when replacing the LCD Panel then adjust as a preparation.

3. White Balance Adjustment 1

Purpose: To mix red, green and blue beams correctly for pure white.

Symptom of Misadjustment: White becomes bluish or reddish.

Test Point	Adj. Point	Mode	Input
Screen	VOL. ▼ buttons	**[VIDEO1]** C/D1 **[VIDEO2]** C/D2	White Purity (APL 80%)
M. EQ.		Spec.	
Pattern Generator, Color analyzer		x: 0.271 to 0.281, y: 0.277 to 0.287	
Figure			



Note: Use the remote control unit.

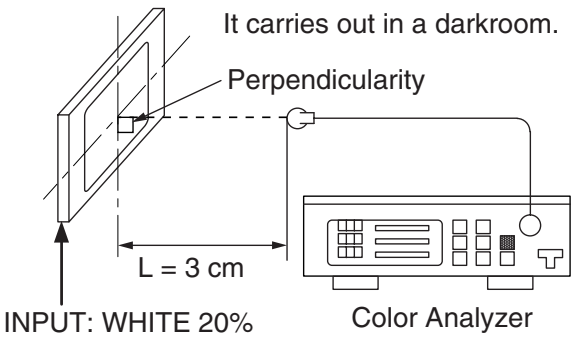
1. Operate the unit for more than 20 minutes.
2. Input the White Purity (APL 80%).
3. Set the color analyzer to the CHROMA mode and bring the optical receptor to the center on the LCD-Panel surface after zero point calibration as shown above.
   Note: The optical receptor must be set perpendicularly to the LCD Panel surface.
4. **[VIDEO1]**
   Enter the Service mode. Press "VOL ▼" button on the remote control unit and select "C/D1-" mode.
   [VIDEO2]
   Enter the Service mode. Press "VOL ▼" button on the remote control unit and select "C/D2-" mode.
5. **[VIDEO1]**
   Press "6" button to select "DB(C/D1)" for Blue adjustment. Press "4" button to select "DR(C/D1)" for Red adjustment. When "x" value and "y" value are not within specification, adjust "DB (C/D1)" or "DR (C/D1)". Refer to "1. Initial Setting."
   Note: "DB(C/D1)" or "DR(C/D1)" must be adjusted within ±0.005.
   [VIDEO2]
   Press "6" button to select "DB(C/D2)" for Blue adjustment. Press "4" button to select "DR(C/D2)" for Red adjustment.When "x" value and "y" value are not within specification, adjust "DB(C/D2)" or "DR(C/D2)". Refer to "1. Initial Setting."
   Note: "DB(C/D2)" or "DR(C/D2)" must be adjusted within ±0.005.
6. Turn the power off and on again. (Main power button on the TV unit.)

4. White Balance Adjustment 2

Purpose: To mix red, green and blue beams correctly for pure white.

Symptom of Misadjustment: White becomes bluish or reddish.

Test Point	Adj. Point	Mode	Input
Screen	VOL. ▼ buttons	**[VIDEO1]** C/D1 **[VIDEO2]** C/D2	White Purity (APL 20%)
M. EQ.		Spec.	
Pattern Generator, Color analyzer		x: 0.271 to 0.281, y: 0.277 to 0.287	
Figure			



Note: Use the remote control unit.

1. Operate the unit for more than 20 minutes.
2. Input the White Purity (APL 20%).
3. Set the color analyzer to the CHROMA mode and bring the optical receptor to the center on the LCD-Panel surface after zero point calibration as shown above.

Note: The optical receptor must be set perpendicularly to the LCD Panel surface.

4. **[VIDEO1]**
   Enter the Service mode. Press “VOL ▼” button on the remote control unit and select “C/D1-” mode.
   [VIDEO2]
   Enter the Service mode. Press “VOL ▼” button on the remote control unit and select “C/D2-” mode.
5. **[VIDEO1]**
   Press “3” button to select “COB(C/D1)” for Blue adjustment. Press “1” button to select “COR(C/D1)” for Red adjustment. When “x” value and “y” value are not within specification, adjust “COB (C/D1)” or “COR (C/D1)”. Refer to “1. Initial Setting.”
   Note: “COB(C/D1)” or “COR(C/D1)” must be adjusted within ±0.005.
   [VIDEO2]
   Press “3” button to select “COB(C/D2)” for Blue adjustment. Press “1” button to select “COR(C/D2)” for Red adjustment. When “x” value and “y” value are not within specification, adjust “COB(C/D2)” or “COR(C/D2)”. Refer to “1. Initial Setting.”
   Note: “COB(C/D2)” or “COR(C/D2)” must be adjusted within ±0.005.
6. Turn the power off and on again. (Main power button on the TV unit.

HOW TO INITIALIZE THE LCD TV/DVD

To put the program back at the factory-default, initialize the LCD TV/DVD as the following procedure.

< DVD Section >

1. Press [1], [2], [3], [4], and [DISPLAY] buttons on the remote control unit in that order.
   Fig. g appears on the screen.

"*******" differs depending on the models.

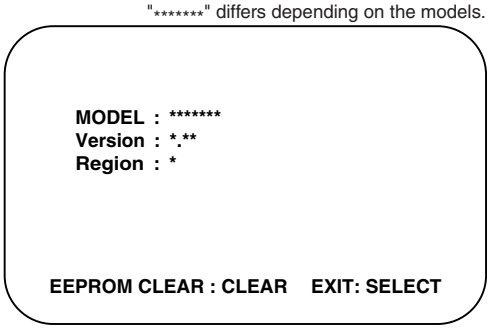


Fig. g

2. Press [CLEAR] button on the remote control unit.
   Fig. h appears on the screen.

"*******" differs depending on the models.

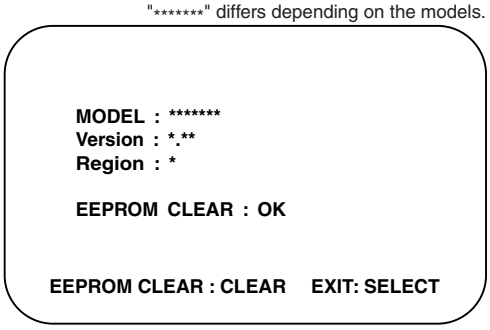


Fig. h

   When “OK” appears on the screen, the factory default will be set.
3. To exit this mode, press [CH. ▲ / ▼] or [SELECT] button to go to TV mode, or press [POWER] button to turn the power off.

< LCD TV Section >

1. Turn the power on. (Use main power on the TV unit.)
2. To enter the service mode, press [DISC MENU] button on the service remote control unit.
   - To cancel the service mode, press [POWER] button on the remote control.
3. To initialize the LCD television, press [DISPLAY] button on the remote control unit.
4. Confirm "FF" indication on the upper right of the screen.
5. Unplug the AC cord.

FIRMWARE RENEWAL MODE

1. Turn the power on and press [EJECT] button on the remote control unit to put the LCD TV/DVD into DVD mode. Then remove the disc.
2. To put the LCD TV/DVD into F/W version up mode, press [9], [8], [7], [6], and [SEARCH MODE] buttons on the remote control unit in that order.
   Fig. a appears on the screen.

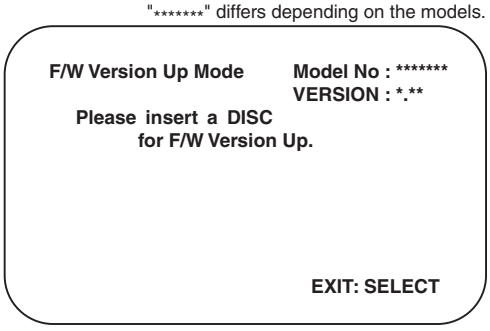


Fig. a Version Up Mode Screen

3. Insert the disc for version up into the disc slot.
4. The LCD TV/DVD enters the F/W version up mode automatically. Fig. c appears on the screen. If you enter the F/W for different models, “Disc Error” will appear on the screen, then the disc will be ejected automatically.

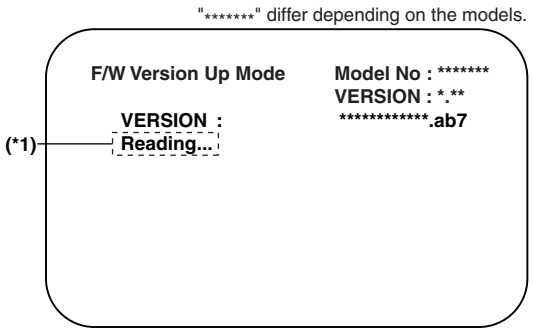


Fig. c Programming Mode Screen

The appearance shown in (*1) of Fig. c is described as follows:

No.	Appearance	State
1	Reading...	Sending files into the memory
2	Erasing...	Erasing previous version data
3	Programming...	Writing new version data

5. After programming is finished, the disc will be ejected automatically. Fig. e appears on the screen and the checksum will be shown in (*2).

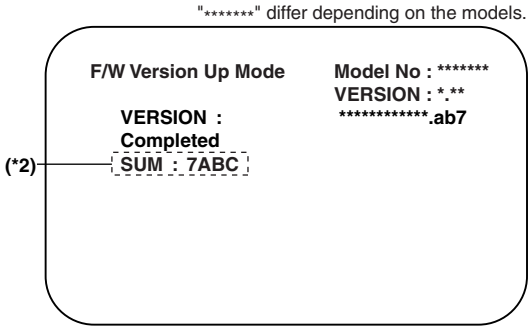


Fig. e Completed Program Mode Screen

At this time, no button is available.

6. Remove the disc.
7. Press [CH. ▲ / ▼] button on the unit to go to TV mode, or press [POWER] button on the unit to turn the power off.
8. Press [EJECT] button on the remote control unit to put the LCD TV/DVD into DVD mode again.
9. Press [1], [2], [3], [4], and [DISPLAY] buttons on the remote control unit in that order.
   Fig. g appears on the screen.

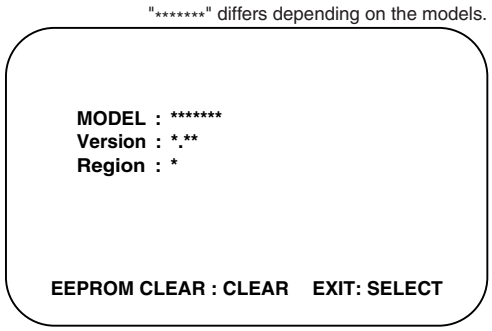


Fig. g

10. Press [CLEAR] button on the remote control unit.
    Fig. h appears on the screen.

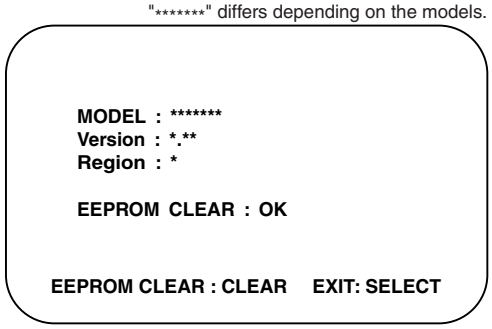


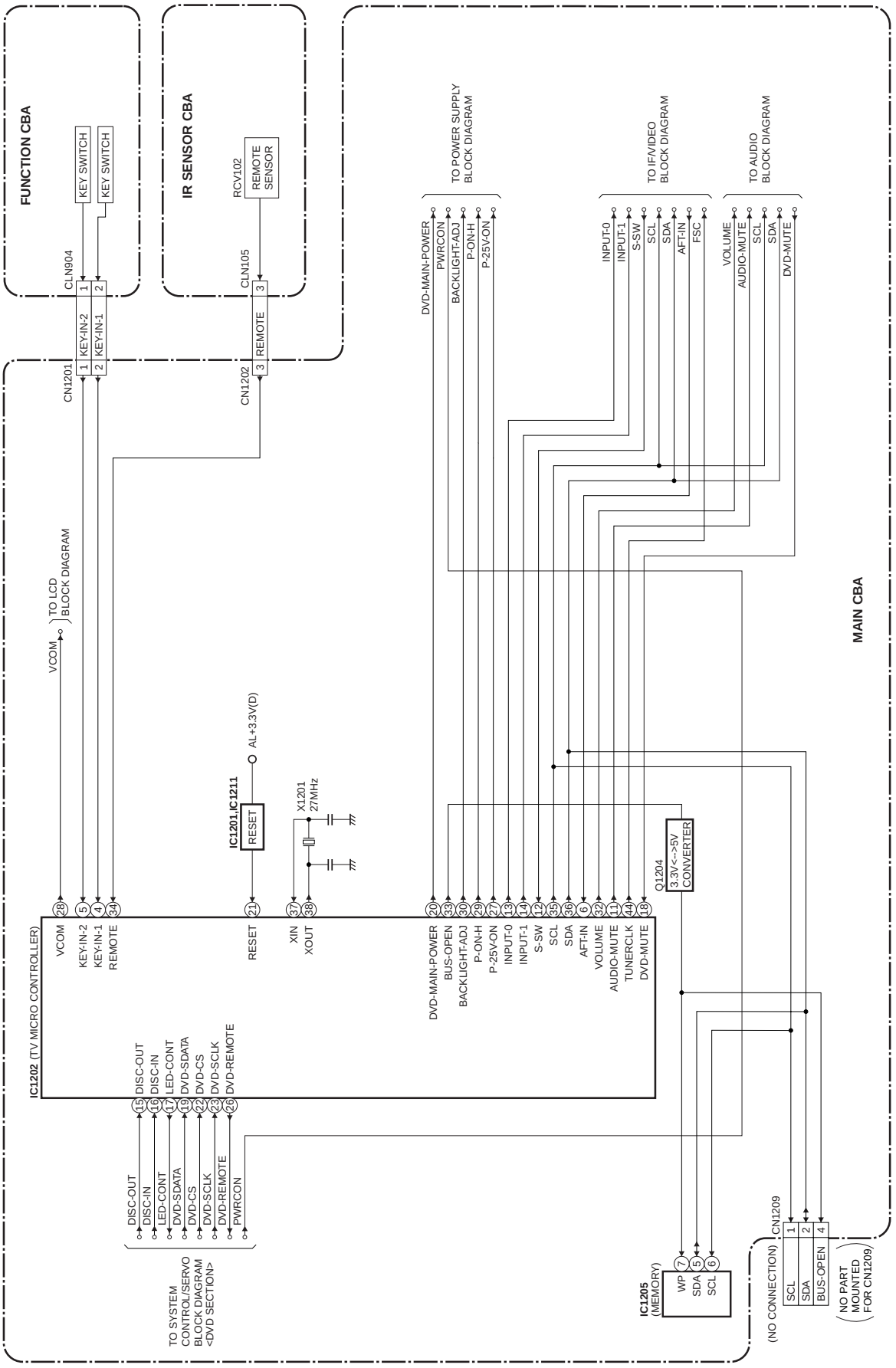
Fig. h

When “OK” appears on the screen, the factory default will be set. Then the firmware renewal mode is complete.

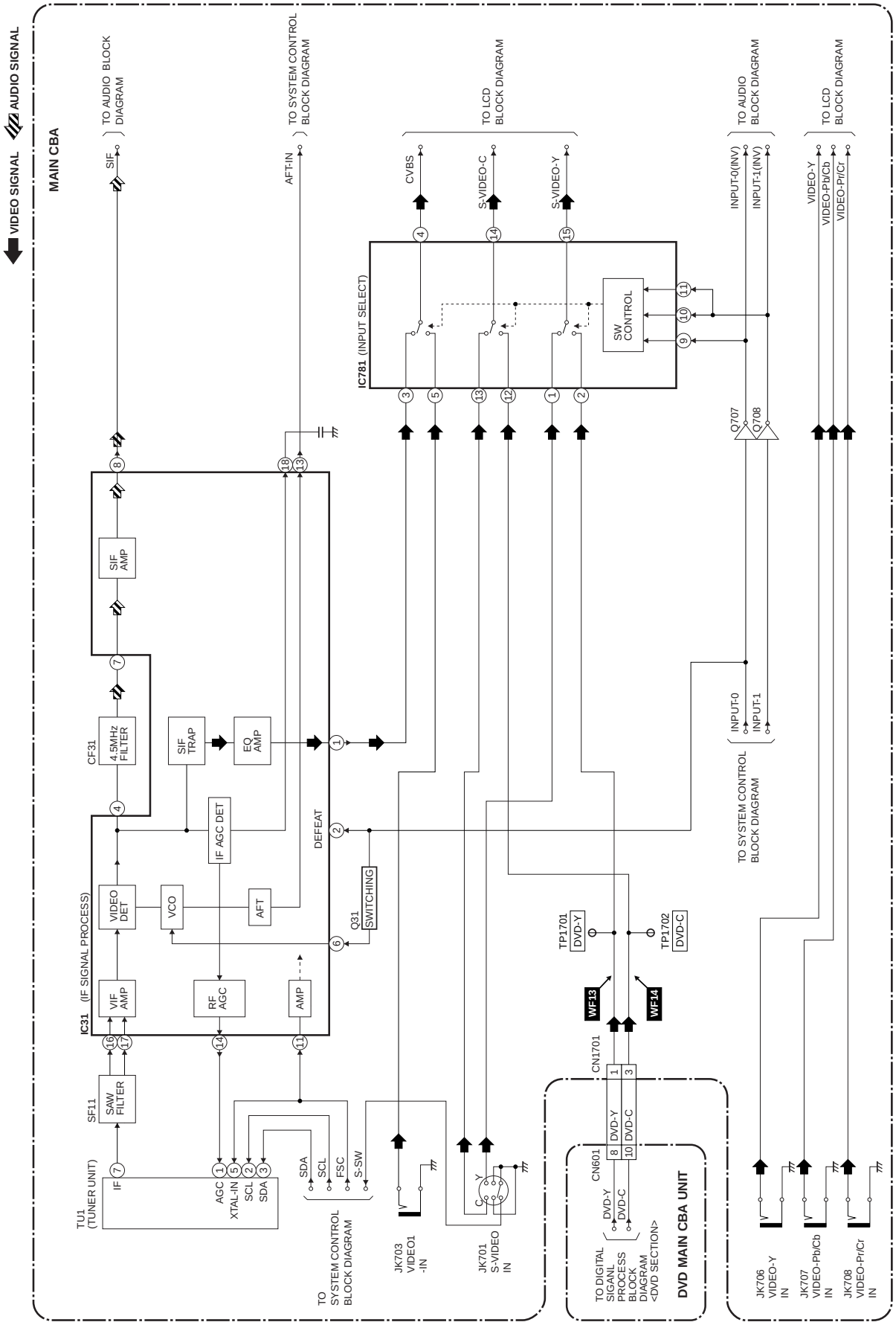
11. To exit this mode, press [CH. ▲ / ▼] or [SELECT] button to go to TV mode, or press [POWER] button to turn the power off.

BLOCK DIAGRAMS < LCD TV SECTION >

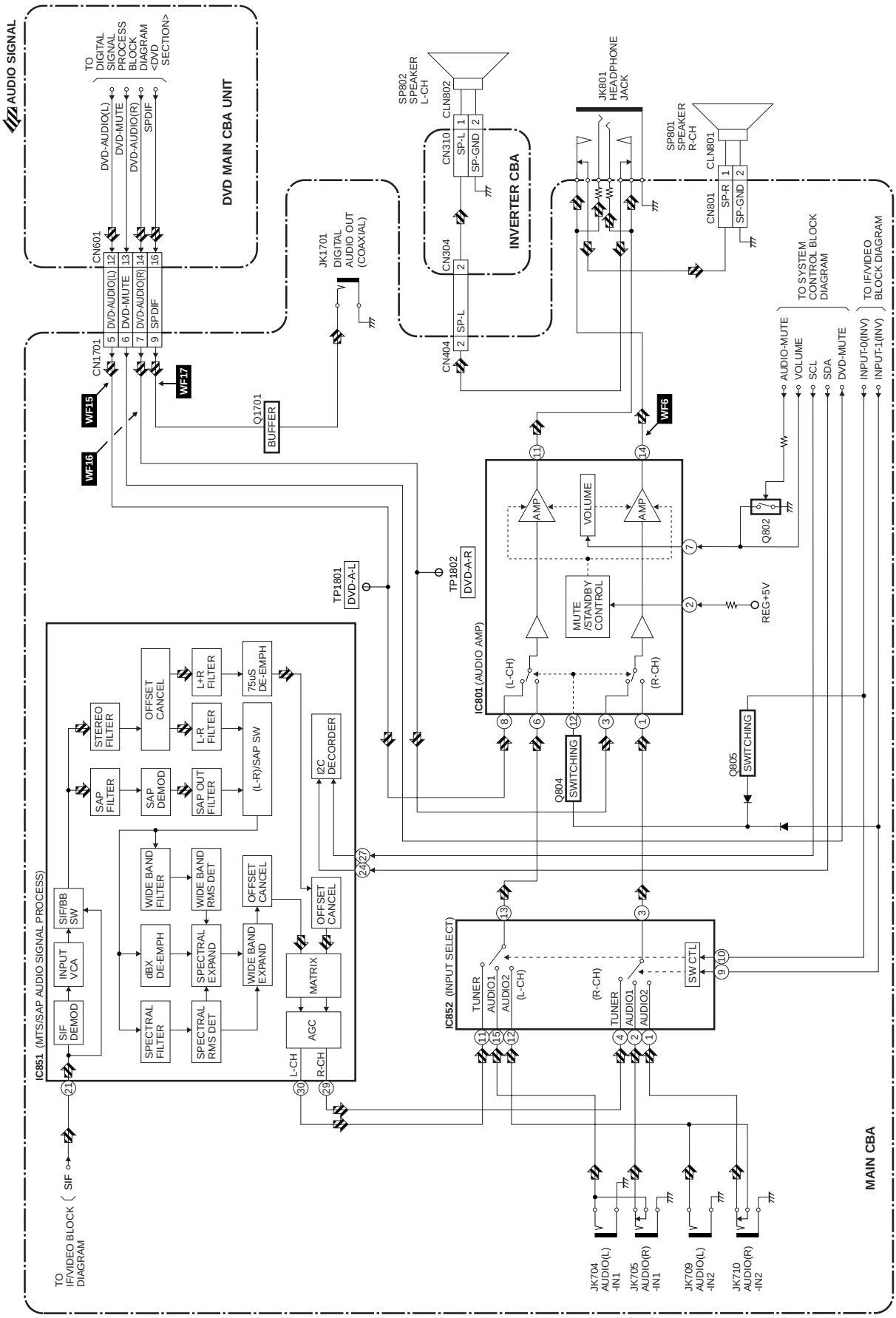
System Control Block Diagram



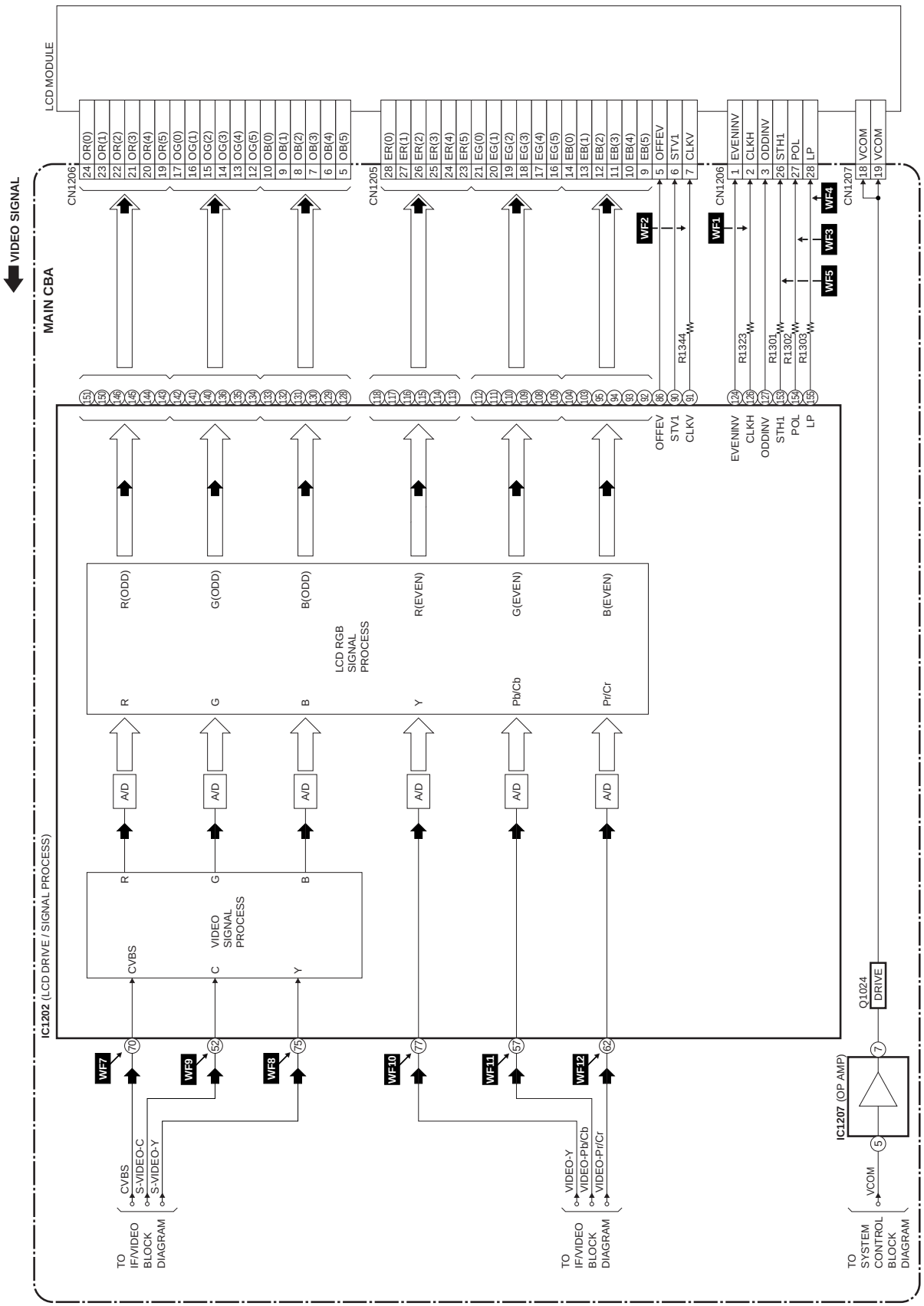
IF/Video Block Diagram



Audio Block Diagram



LCD Block Diagram


LCD MODULE
VIDEO SIGNAL
MAIN CBA
IC1202 (LCD DRIVE / SIGNAL PROCESS)
CN1206
CN1205
CN1206
CN1207
OR(0) OR(1) OR(2) OR(3) OR(4) OR(5) OG(0) OG(1) OG(2) OG(3) OG(4) OG(5) OB(0) OB(1) OB(2) OB(3) OB(4) OB(5)
ER(0) ER(1) ER(2) ER(3) ER(4) ER(5) EG(0) EG(1) EG(2) EG(3) EG(4) EG(5) EB(0) EB(1) EB(2) EB(3) EB(4) EB(5) OFFEV STV1 CLKV
EVENINV CLKH ODDINV STH1 POL LP
VCOM VCOM
WF1 WF2 WF3 WF4 WF5
R1344 R1323 R1301 R1302 R1303
R(ODD) G(ODD) B(ODD) R(EVEN) G(EVEN) B(EVEN)
LCD RGB SIGNAL PROCESS
R G B Y Pb/Cb Pr/Cr
A/D
VIDEO SIGNAL PROCESS
CVBS C Y
WF7 WF9 WF8 WF10 WF11 WF12
CVBS S-VIDEO-C S-VIDEO-Y
VIDEO-Y VIDEO-Pb/Cb VIDEO-Pr/Cr
TO IF/VIDEO BLOCK DIAGRAM
TO IF/VIDEO BLOCK DIAGRAM
IC1207 (OP AMP)
Q1024 DRIVE
VCOM
TO SYSTEM CONTROL BLOCK DIAGRAM

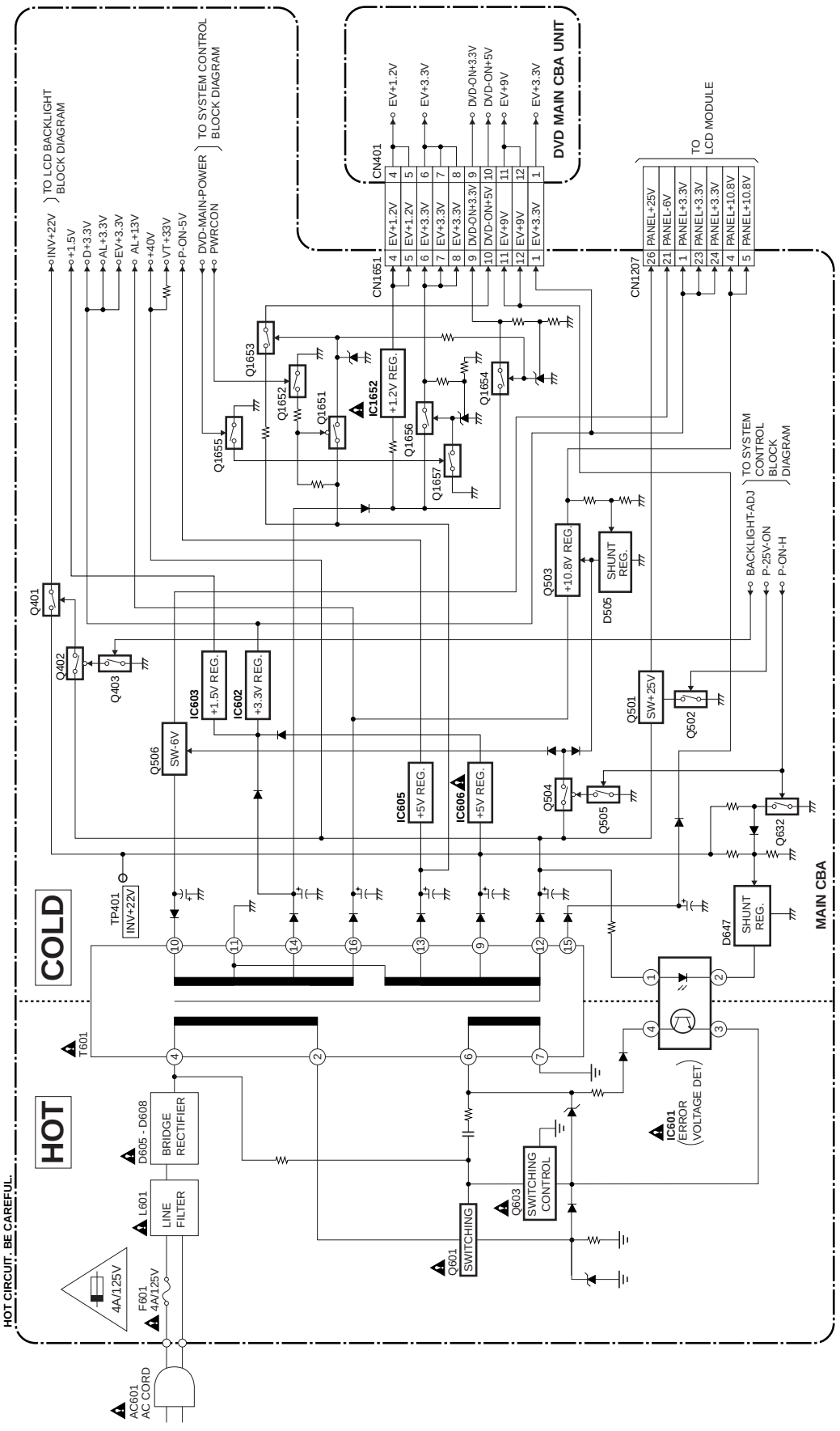
Power Supply Block Diagram

CAUTION !
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F601) is blown , check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.
Otherwise it may cause some components in the power supply circuit to fail.

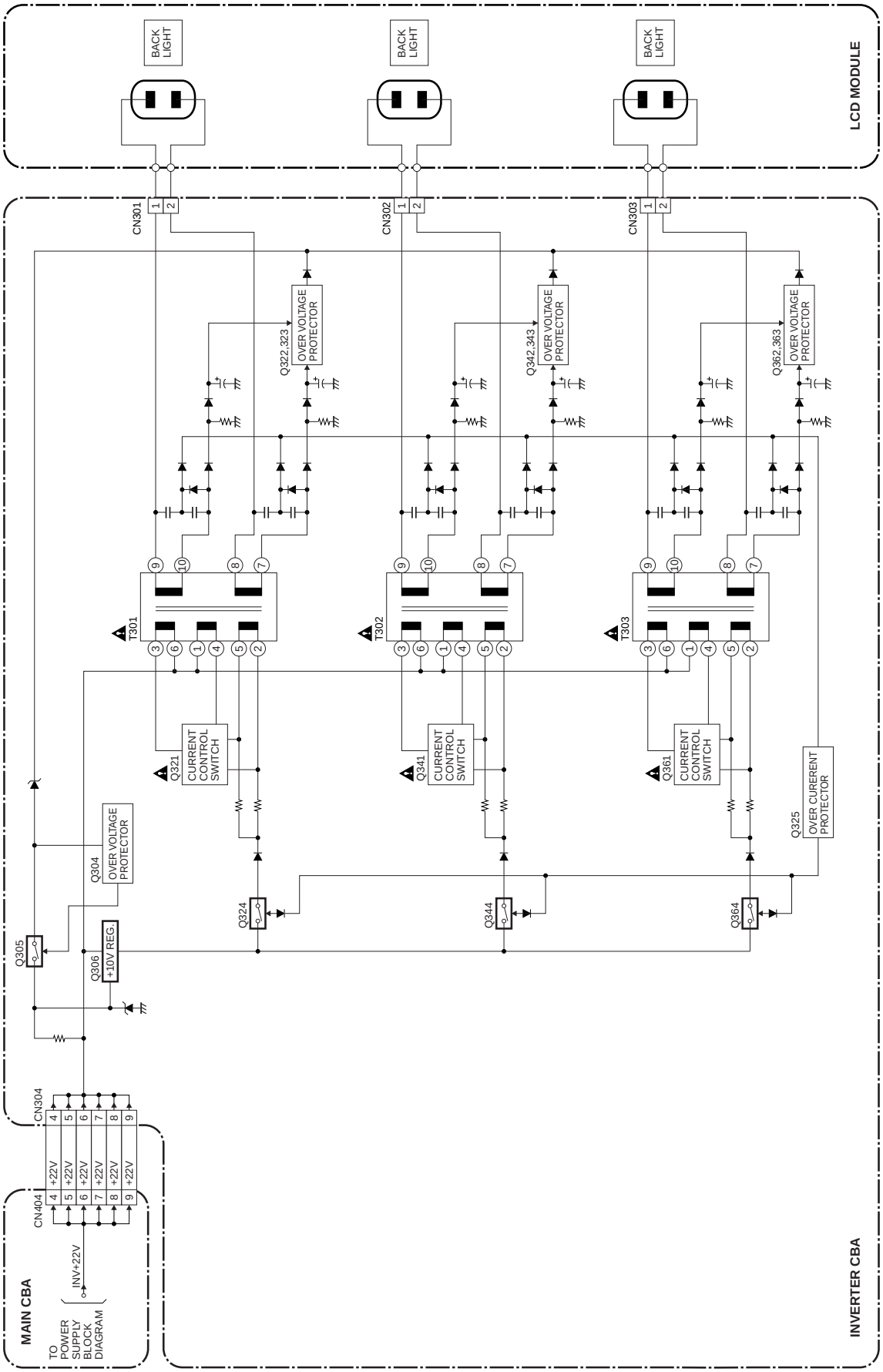
4A/125V

CAUTION ! : For continued protection against risk of fire, replace only with same type 4 A, 125V fuse.
ATTENTION : Utiliser un fusible de rechange de même type de 4A, 125V.

NOTE:
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

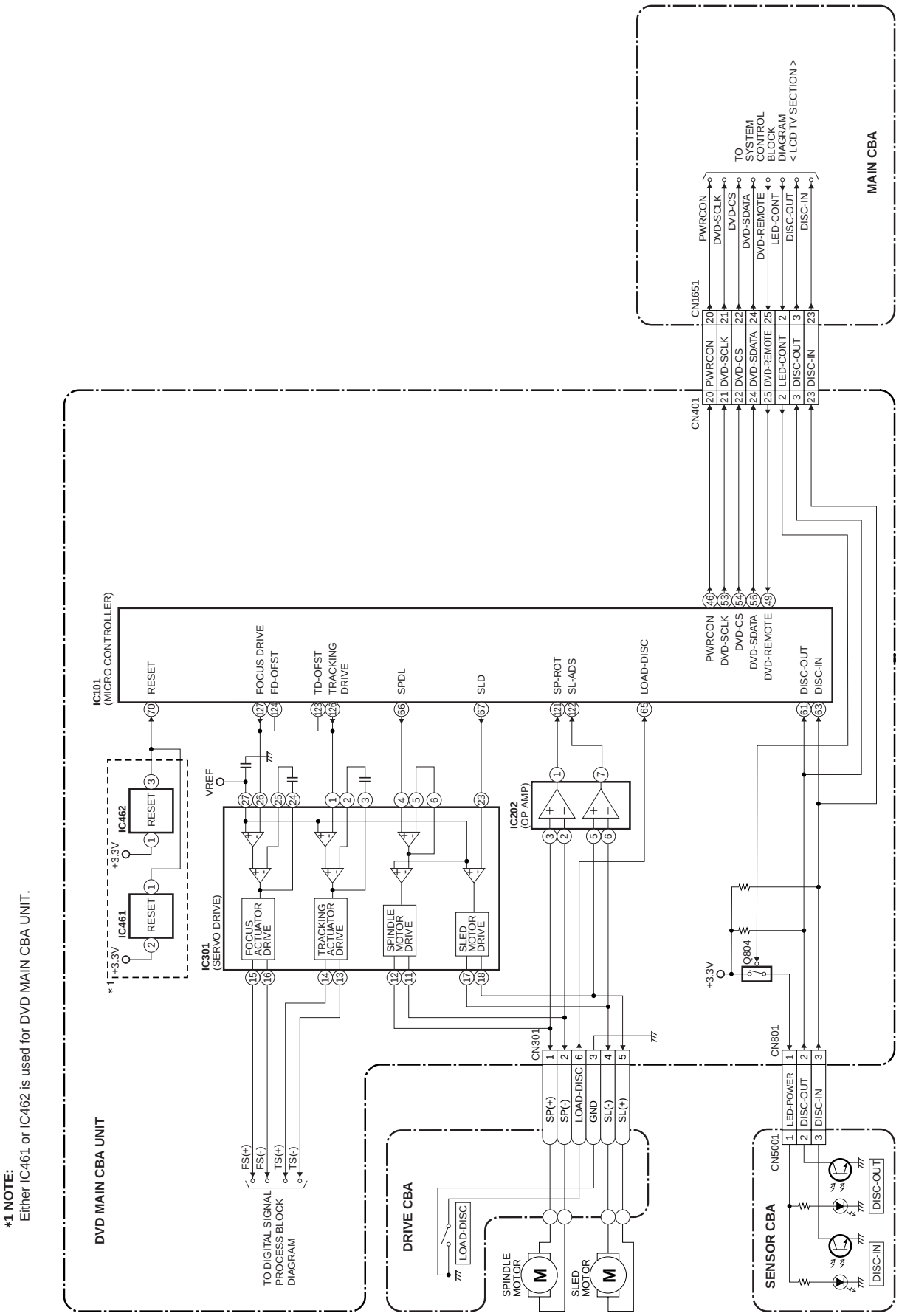


LCD Backlight Block Diagram



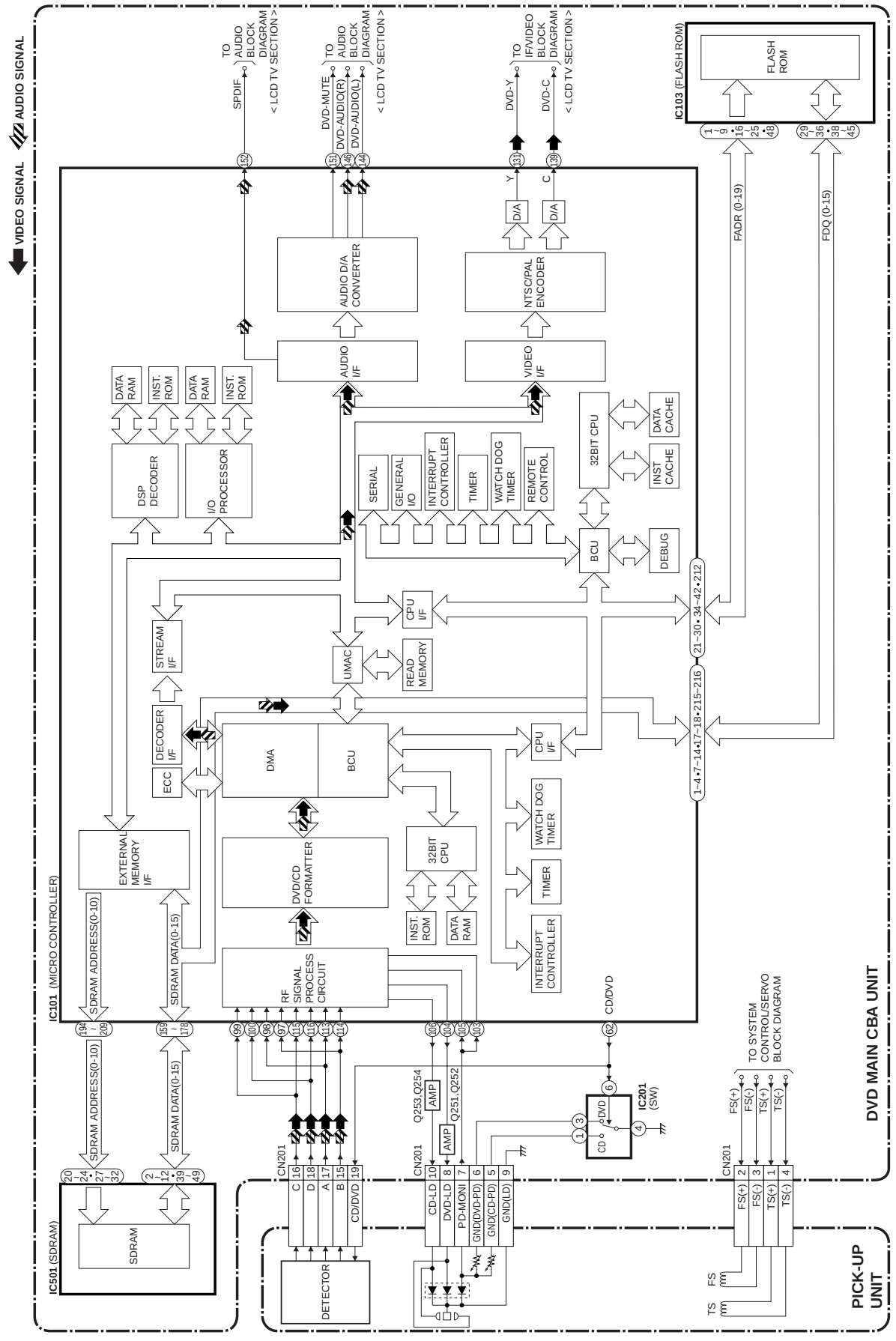
BLOCK DIAGRAMS < DVD SECTION >

System Control / Servo Block Diagram



***1 NOTE:**
Either IC461 or IC462 is used for DVD MAIN CBA UNIT.

Digital Signal Process Block Diagram



SCHEMATIC DIAGRAMS / CBA'S AND TEST POINTS

Standard Notes

Many electrical and mechanical parts in this chassis have special characteristics. These characteristics often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts that have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the mark "⚠" in the schematic diagram and the parts list. Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts that do not have the same safety characteristics as specified in the parts list may create shock, fire, or other hazards.

Notes:

1. Do not use the part number shown on these drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since these drawings were prepared.
2. All resistance values are indicated in ohms (K = 10^3, M = 10^6).
3. Resistor wattages are 1/4W or 1/6W unless otherwise specified.
4. All capacitance values are indicated in μF (P = 10^{-6} μF).
5. All voltages are DC voltages unless otherwise specified.

Note of Capacitors:

ML --- Mylar Cap. PP --- Metallized Film Cap. SC --- Semiconductor Cap. L --- Low Leakage type

Temperature Characteristics of Capacitors are noted with the following:

B --- ±10% CH --- 0±60 ppm/°C CSL --- +350~-1000 ppm/°C

Tolerance of Capacitors are noted with the following:

Z --- +80~-20%

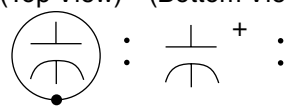
Note of Resistors:

CEM --- Cement Res. MTL --- Metal Res. F --- Fuse Res.

Capacitors and transistors are represented by the following symbols.

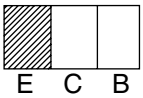
CBA Symbols

(Top View) (Bottom View)



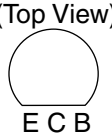
Electrolytic Capacitor

(Bottom View)



Transistor or Digital Transistor

(Top View)



NPN Transistor

(Top View)

PNP Transistor

(Top View)

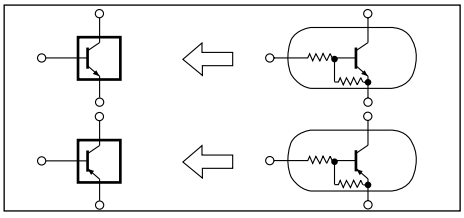
NPN Digital Transistor

(Top View)

PNP Digital Transistor

Schematic Diagram Symbols

Digital Transistor



LIST OF CAUTION, NOTES, AND SYMBOLS USED IN THE SCHEMATIC DIAGRAMS ON THE FOLLOWING PAGES:

1. CAUTION:

CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE_A,_V FUSE.

ATTENTION: UTILISER UN FUSIBLE DE RECHANGE DE MÊME TYPE DE_A,_V.

2. CAUTION:

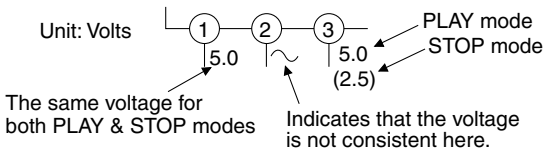
Fixed Voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F601) is blown, first check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

3. Note:

1. Do not use the part number shown on the drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since the drawings were prepared.
2. To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list section of the service manual.

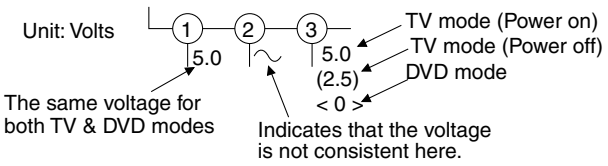
4. Voltage indications for PLAY and STOP modes on the schematics are as shown below:

< DVD Section >



< TV Section >

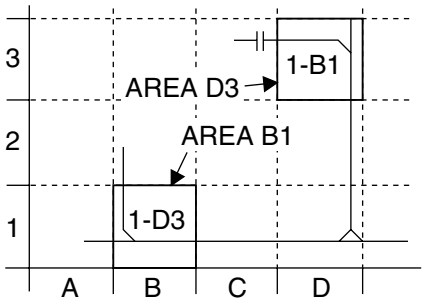
Unit: Volts



5. How to read converged lines

1-D3
- Distinction Area
- Line Number
- (1 to 3 digits)

Examples:
1. "1-D3" means that line number "1" goes to the line number "1" of the area "D3".
2. "1-B1" means that line number "1" goes to the line number "1" of the area "B1".



6. Test Point Information

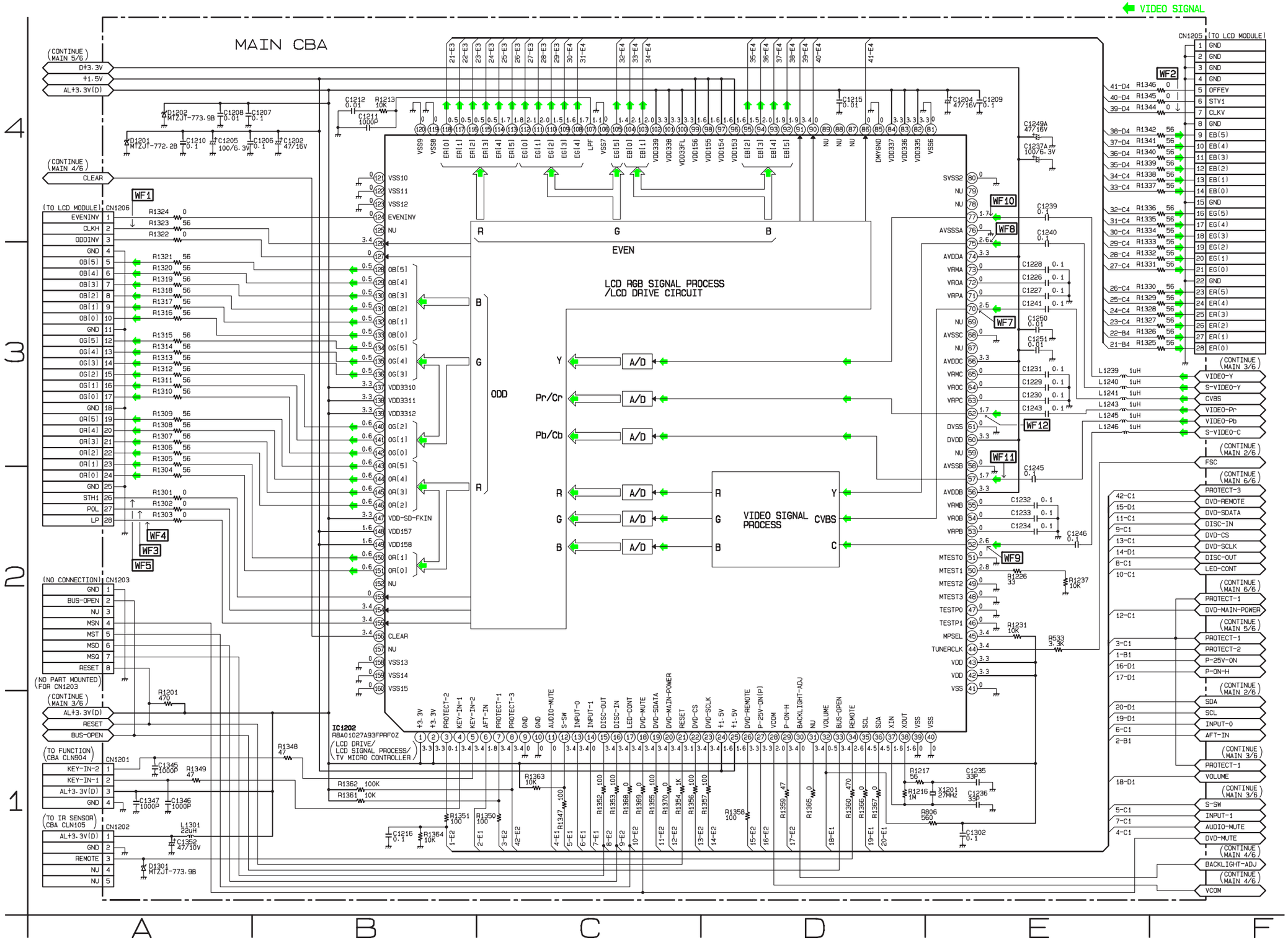
: Indicates a test point with a jumper wire across a hole in the PCB.

: Used to indicate a test point with a component lead on foil side.

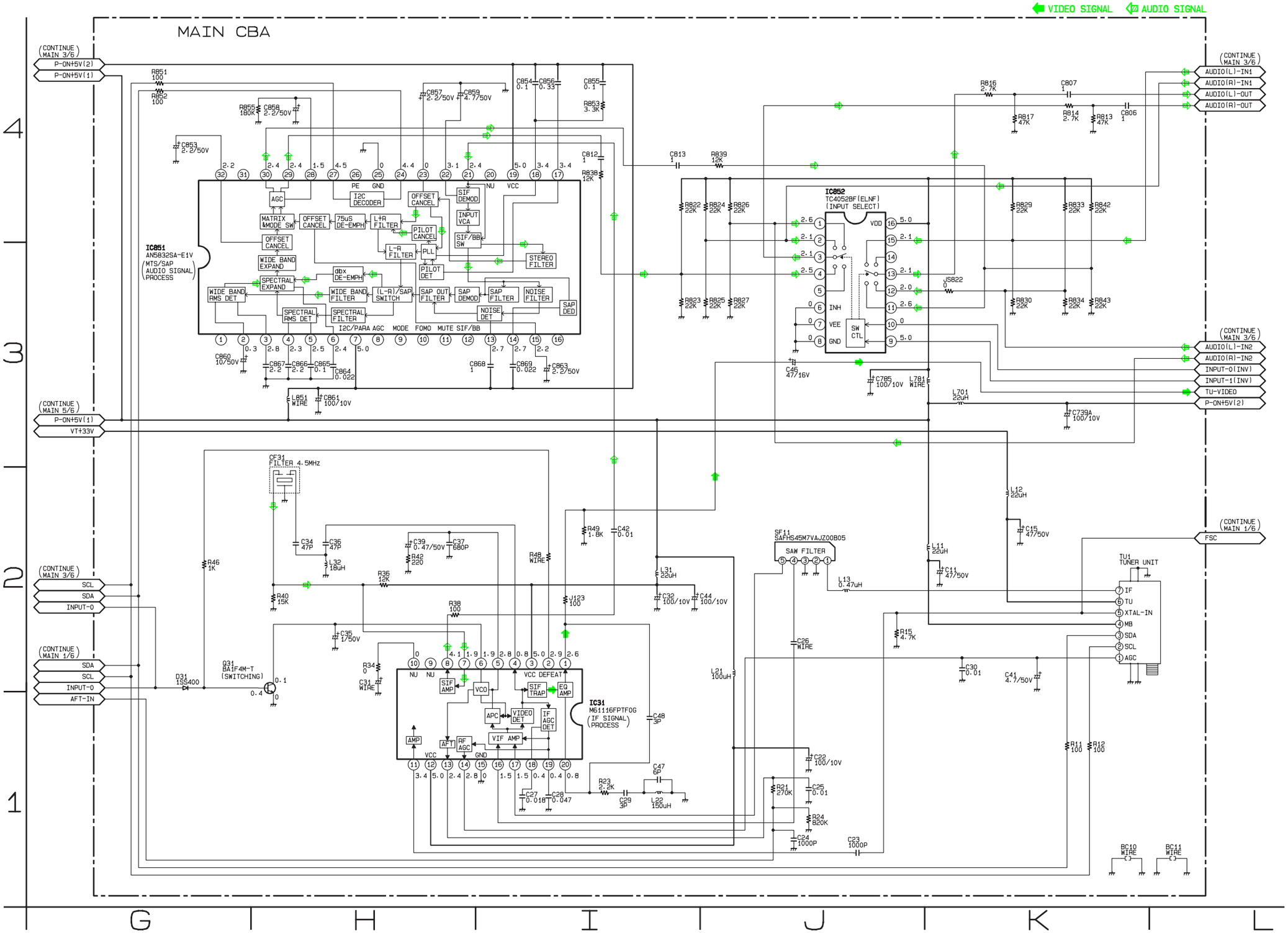
: Used to indicate a test point with no test pin.

: Used to indicate a test point with a test pin.

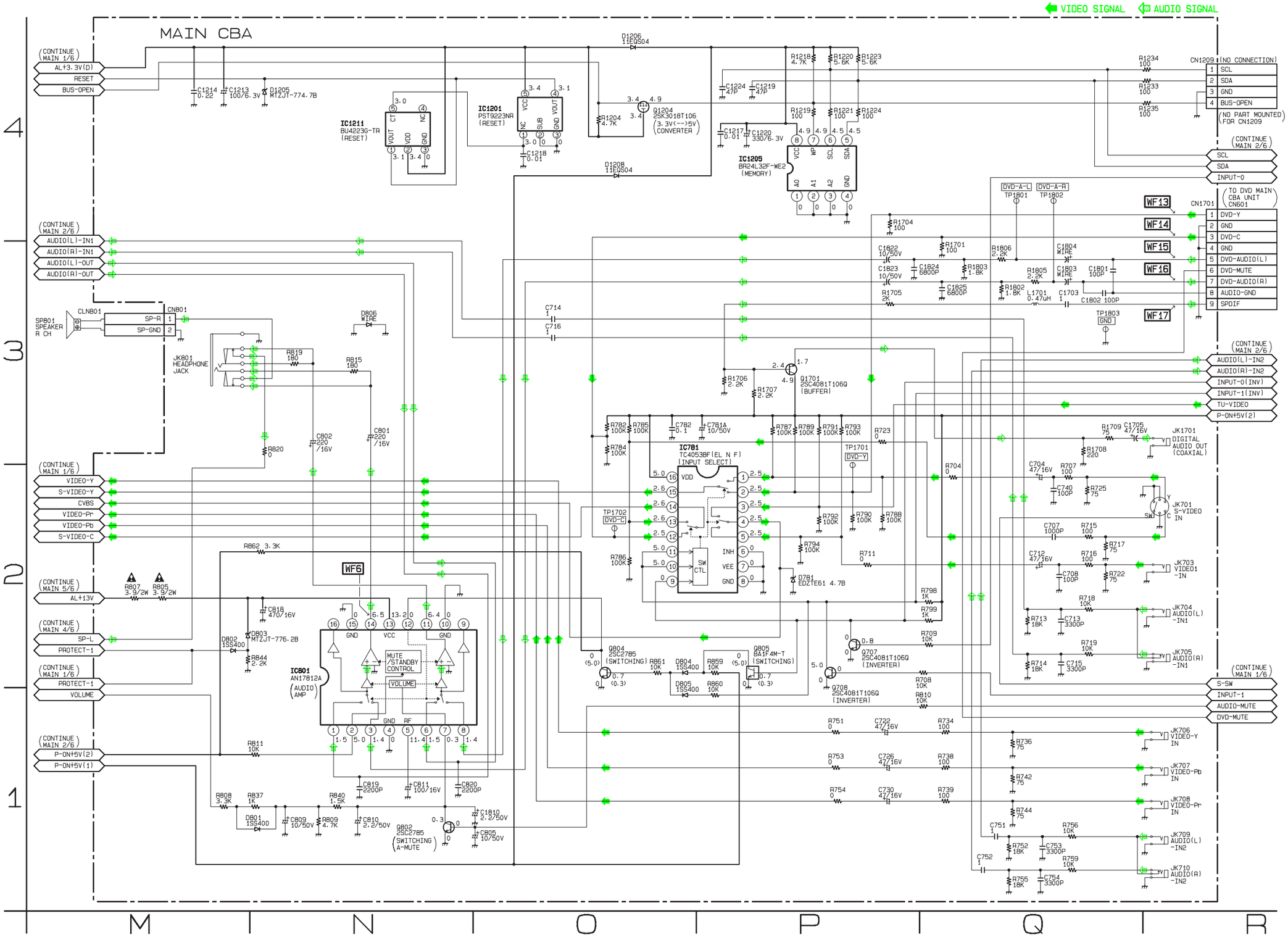
Main 1/6 Schematic Diagram < LCD TV Section >



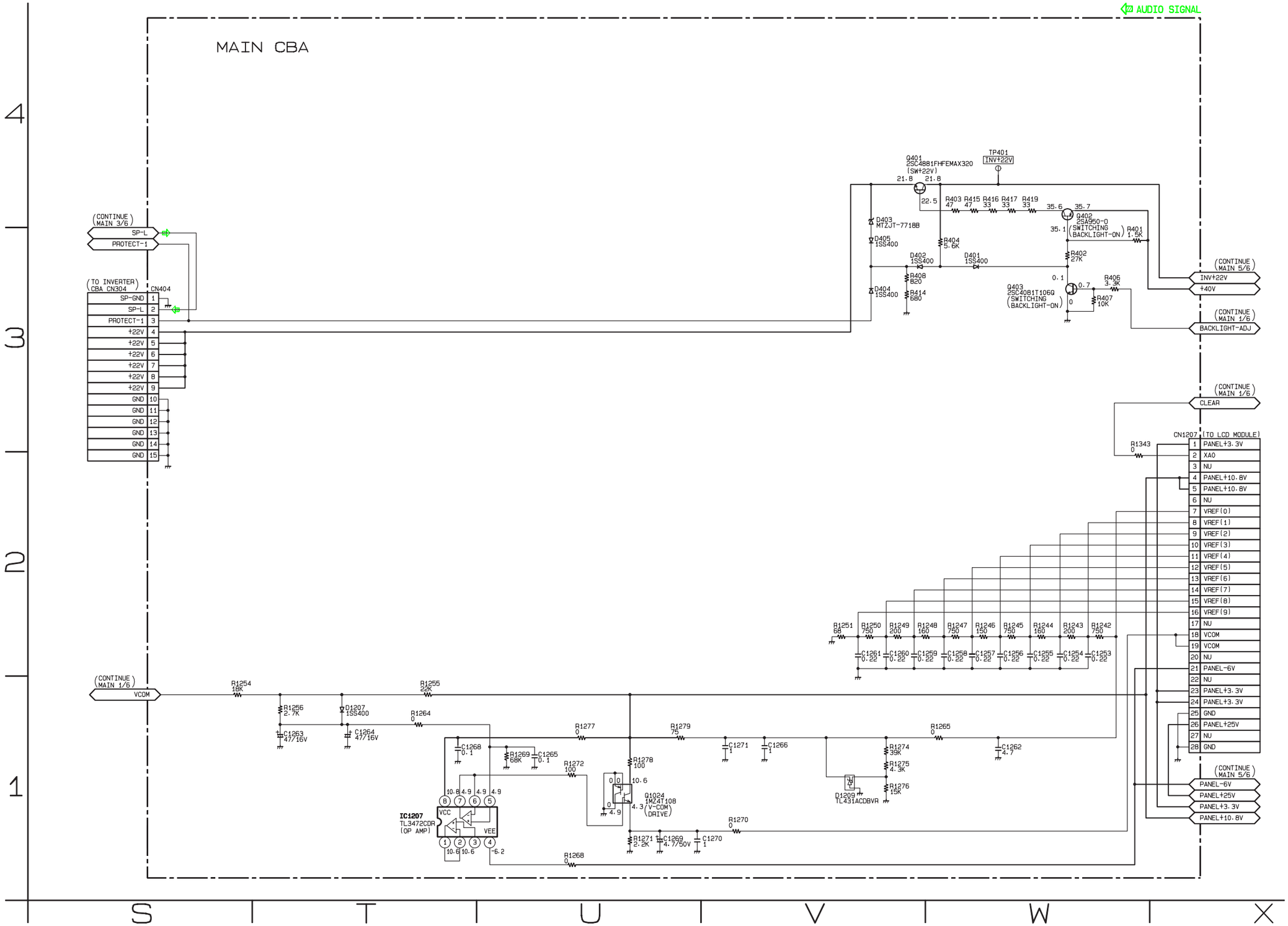
Main 2/6 Schematic Diagram < LCD TV Section >



Main 3/6 Schematic Diagram < LCD TV Section >

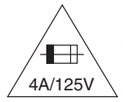


Main 4/6 Schematic Diagram < LCD TV Section >



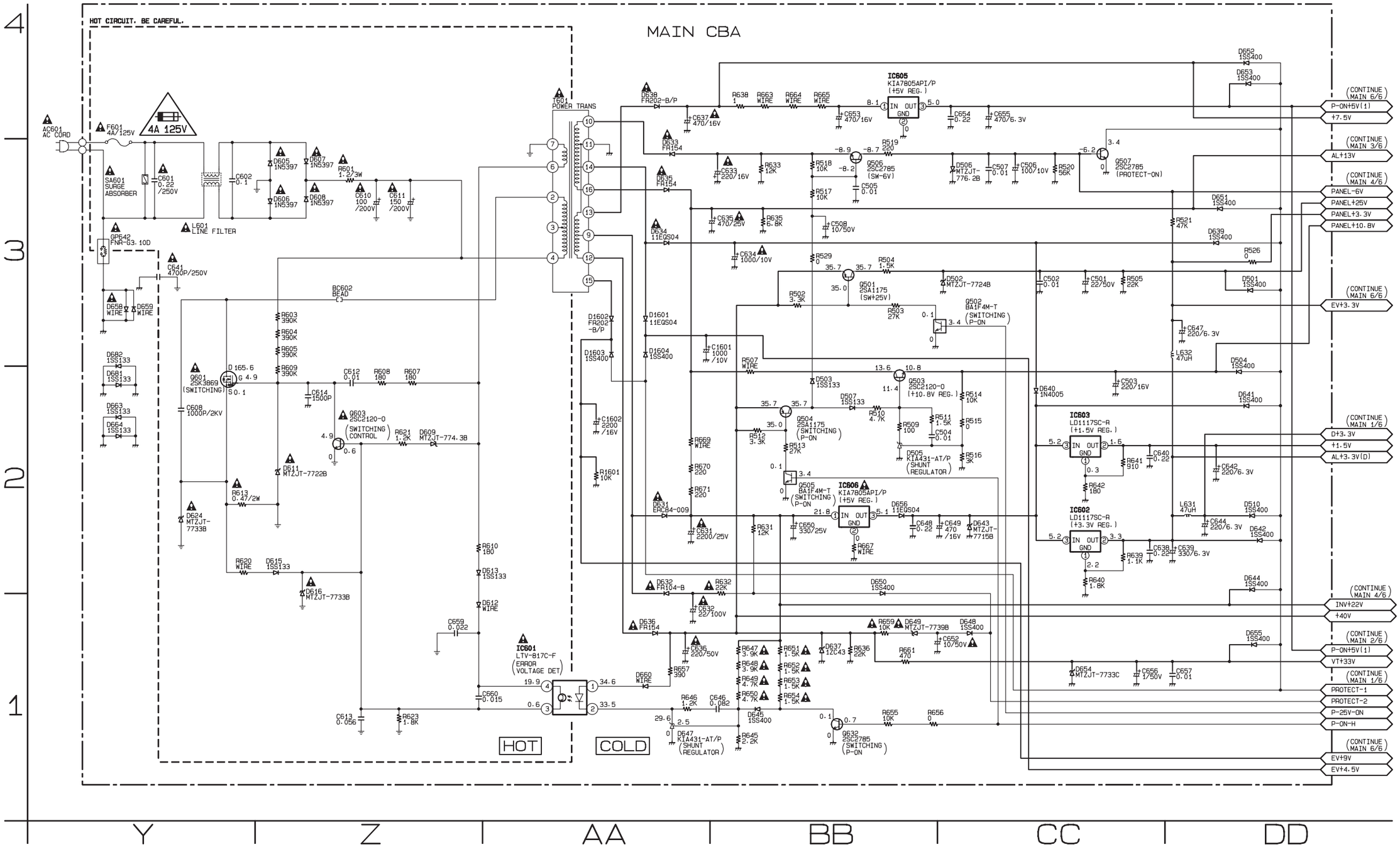
Main 5/6 Schematic Diagram < LCD TV Section >

CAUTION !
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F601) is blown , check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.
Otherwise it may cause some components in the power supply circuit to fail.

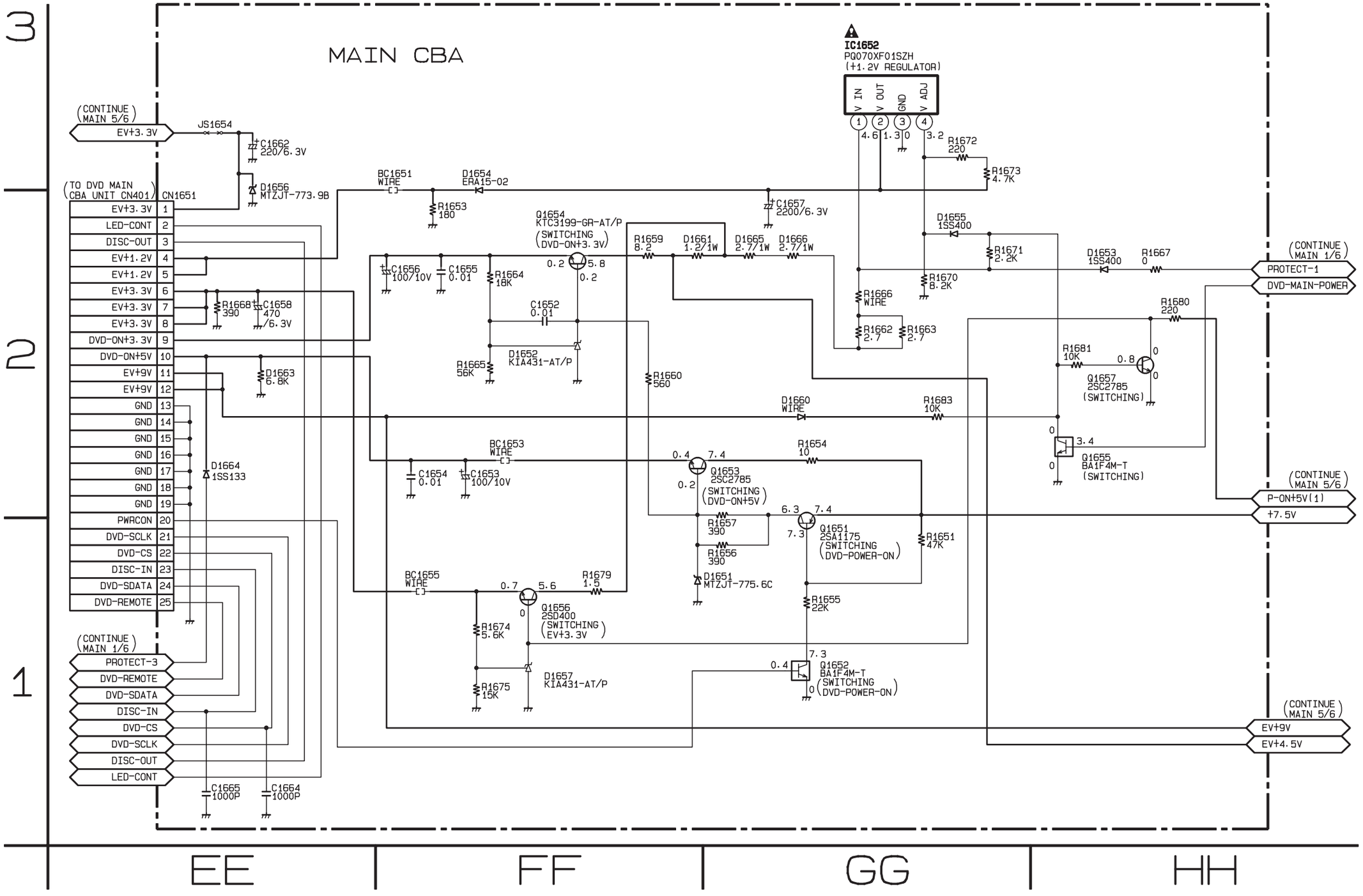


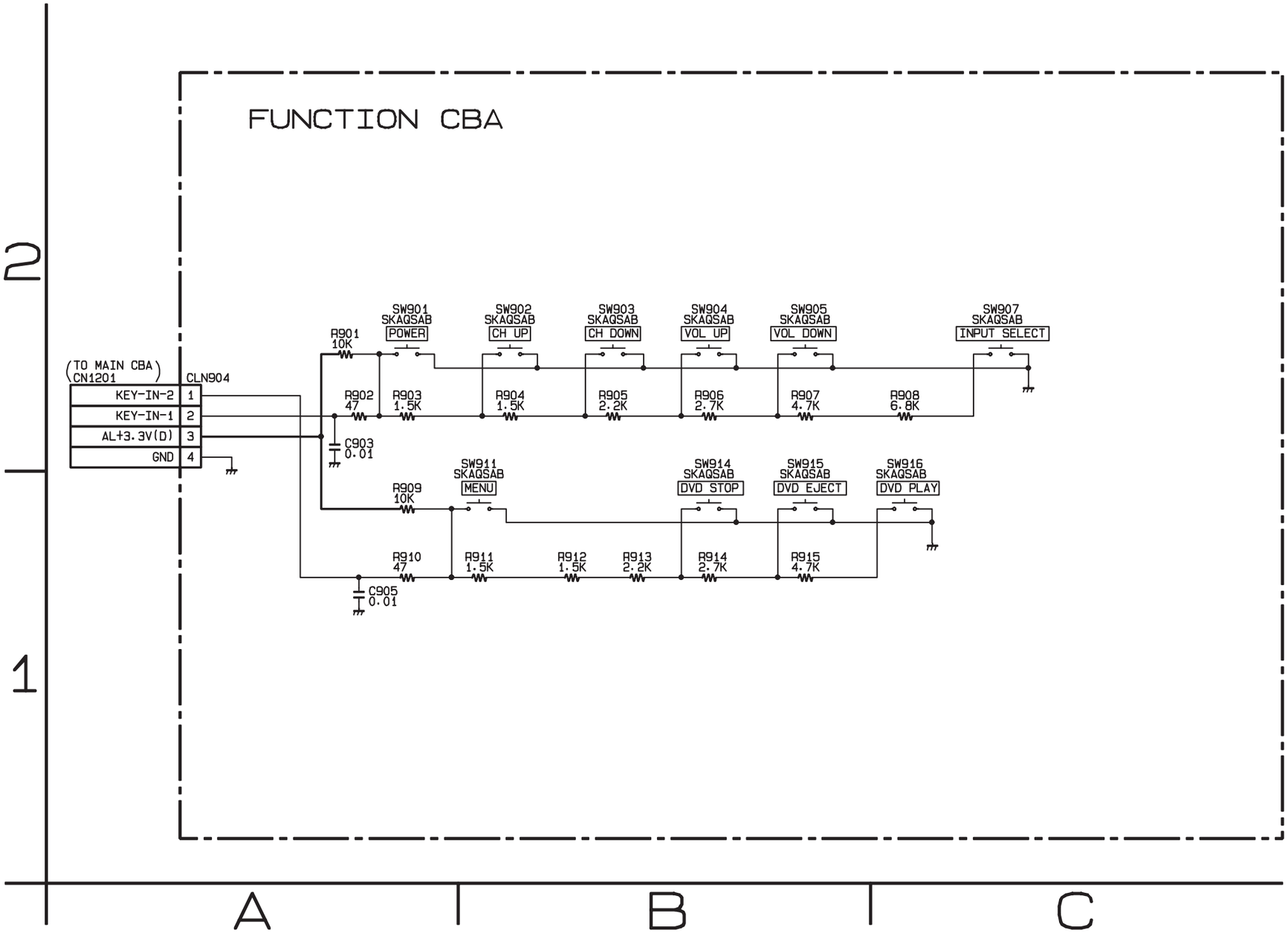
CAUTION ! : For continued protection against risk of fire, replace only with same type 4 A, 125V fuse.
ATTENTION : Utiliser un fusible de rechange de même type de 4A, 125V.

NOTE:
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

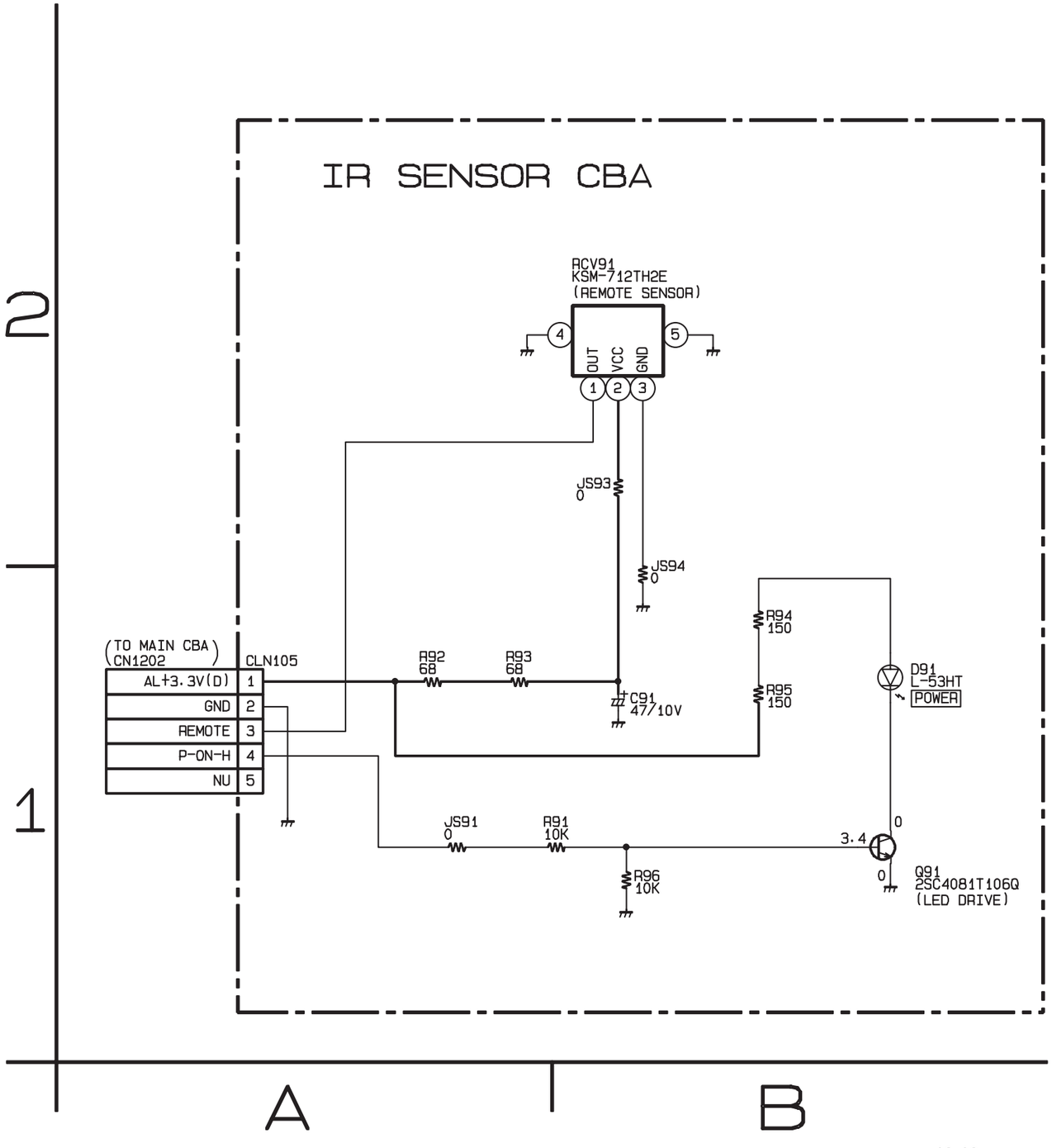


Main 6/6 Schematic Diagram < LCD TV Section >

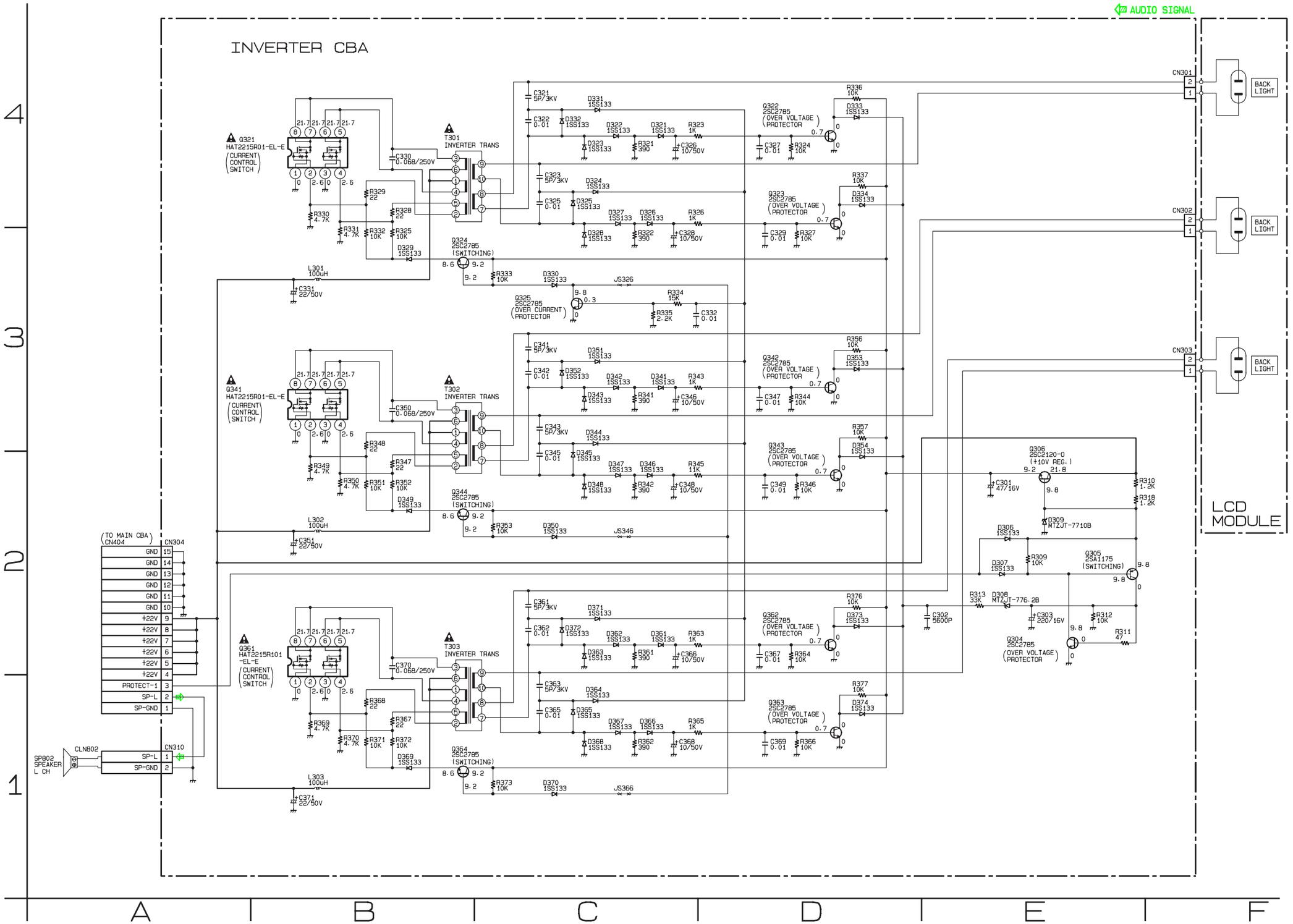



FUNCTION CBA
(TO MAIN CBA CN1201)
CLN904
KEY-IN-2 1
KEY-IN-1 2
AL+3.3V(D) 3
GND 4
SW901 SKAQSAB POWER
SW902 SKAQSAB CH UP
SW903 SKAQSAB CH DOWN
SW904 SKAQSAB VOL UP
SW905 SKAQSAB VOL DOWN
SW907 SKAQSAB INPUT SELECT
SW911 SKAQSAB MENU
SW914 SKAQSAB DVD STOP
SW915 SKAQSAB DVD EJECT
SW916 SKAQSAB DVD PLAY
R901 10K
R902 47
R903 1.5K
R904 1.5K
R905 2.2K
R906 2.7K
R907 4.7K
R908 6.8K
R909 10K
R910 47
R911 1.5K
R912 1.5K
R913 2.2K
R914 2.7K
R915 4.7K
C903 0.01
C905 0.01
2
1
A
B
C

IR Sensor Schematic Diagram < LCD TV Section >

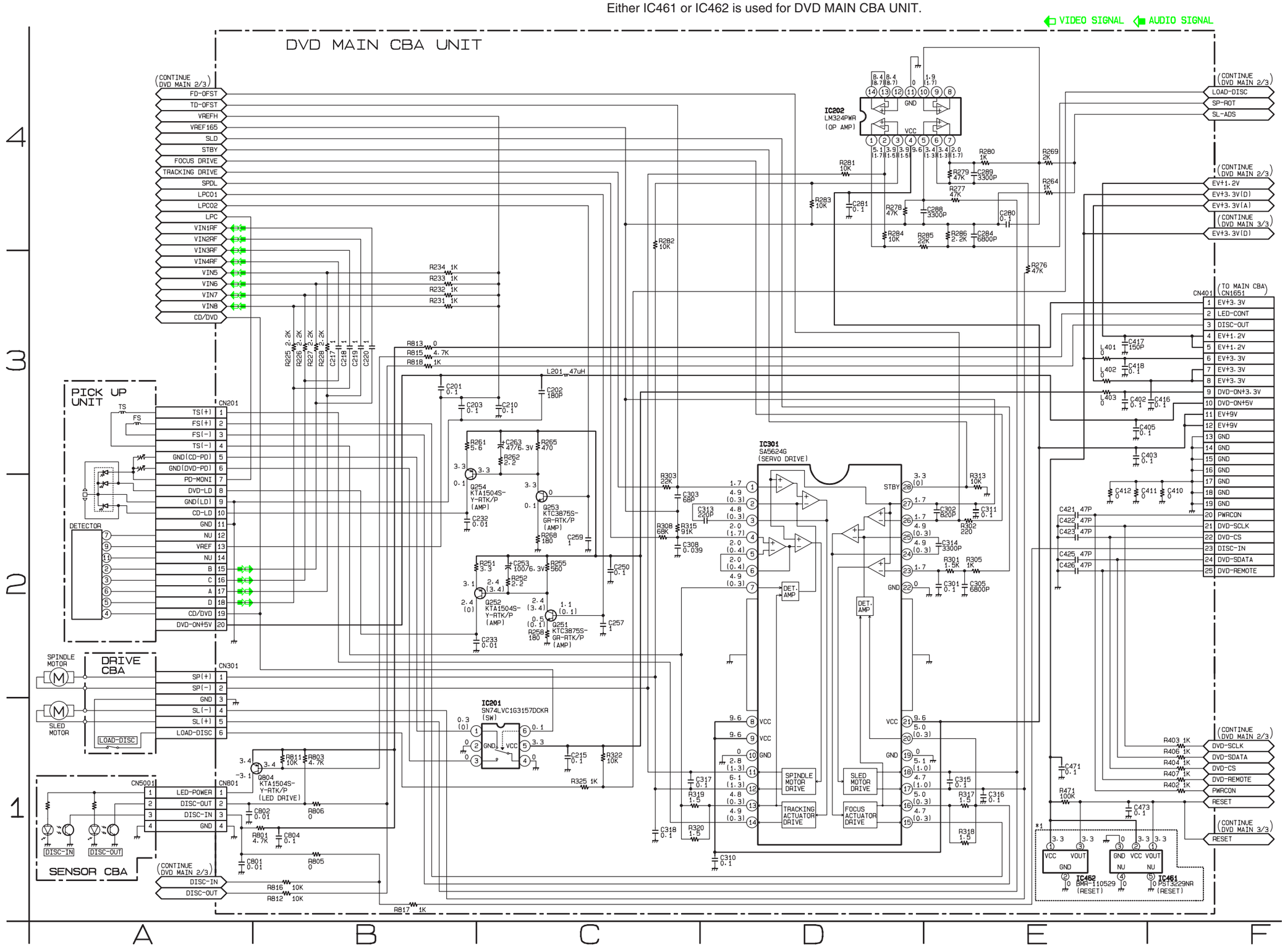


Inverter Schematic Diagram < LCD TV Section >

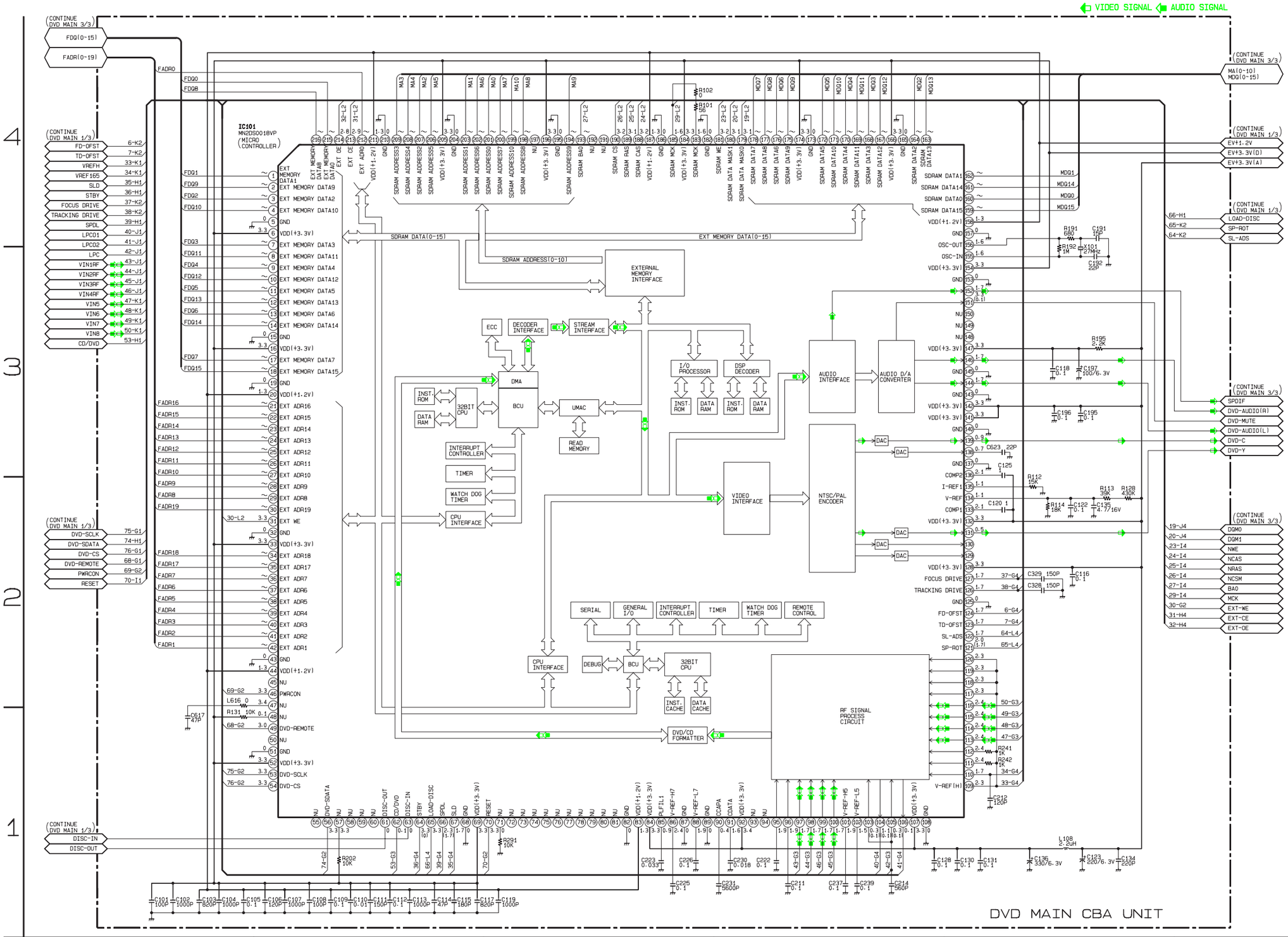


DVD Main 1/3 Schematic Diagram < DVD Section >

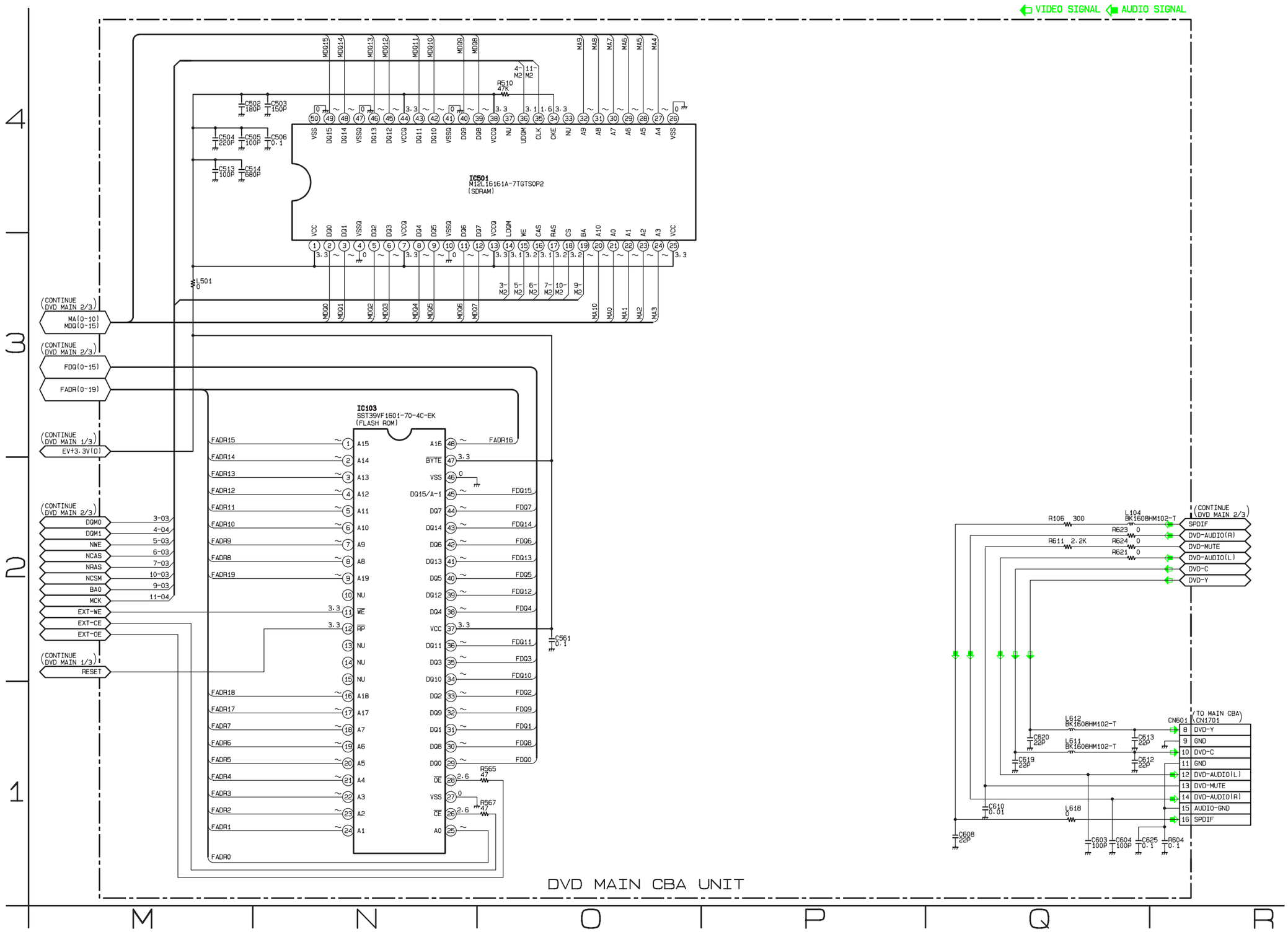
∗1 NOTE:
Either IC461 or IC462 is used for DVD MAIN CBA UNIT.



DVD Main 2/3 Schematic Diagram < DVD Section >



DVD Main 3/3 Schematic Diagram < DVD Section >



Main CBA Top View

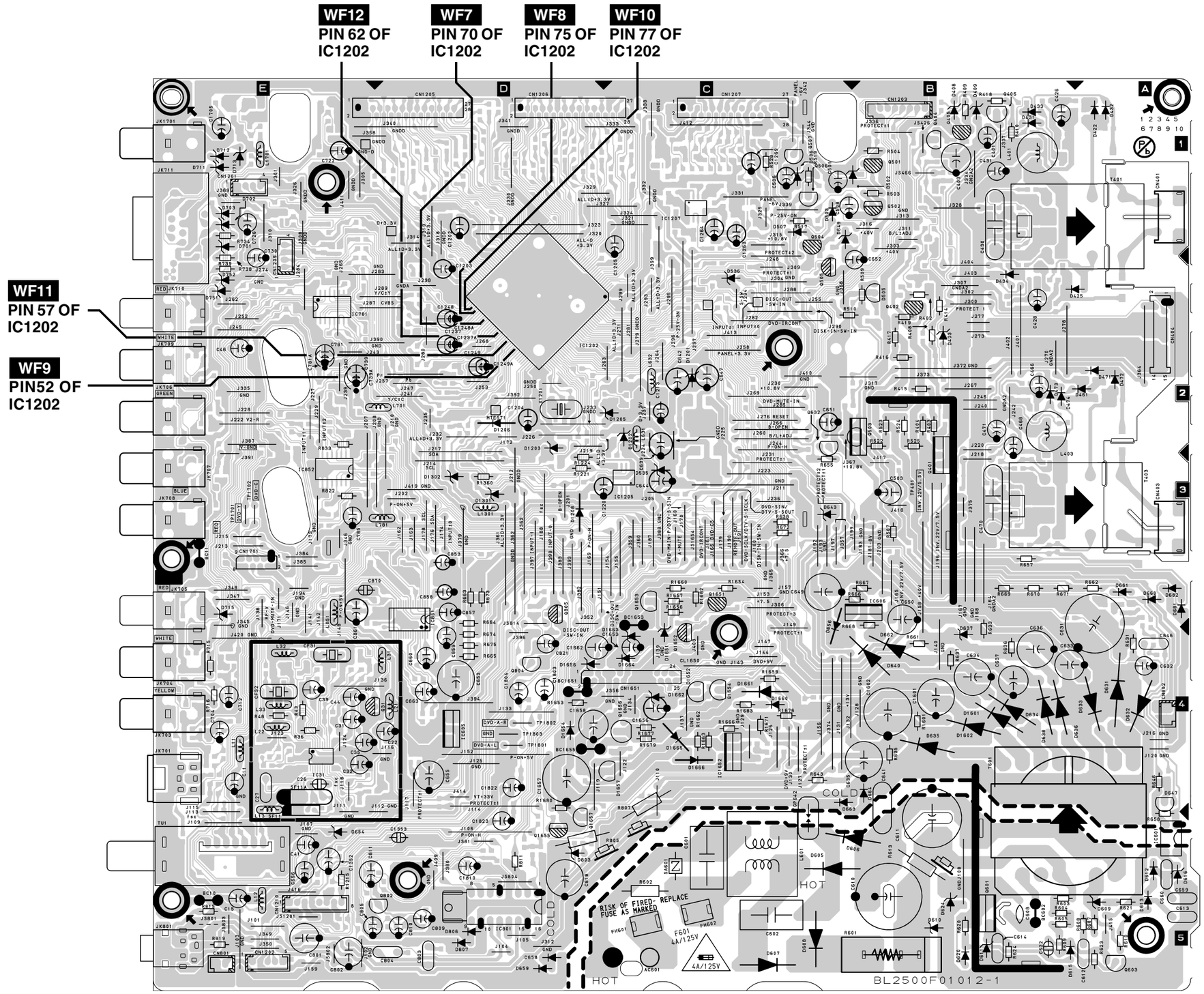
CAUTION !
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F601) is blown , check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.
Otherwise it may cause some components in the power supply circuit to fail.

4A/125V

CAUTION ! : For continued protection against risk of fire, replace only with same type 4 A, 125V fuse.
ATTENTION : Utiliser un fusible de rechange de même type de 4A, 125V.

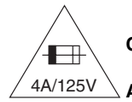
Because a hot chassis ground is present in the power supply circuit, an isolation transformer must be used. Also, in order to have the ability to increase the input slowly,when troubleshooting this type power supply circuit, a variable isolation transformer is required.

NOTE:
The voltage for parts in hot circuit is measured using hot GND as a common terminal.



Main CBA Bottom View

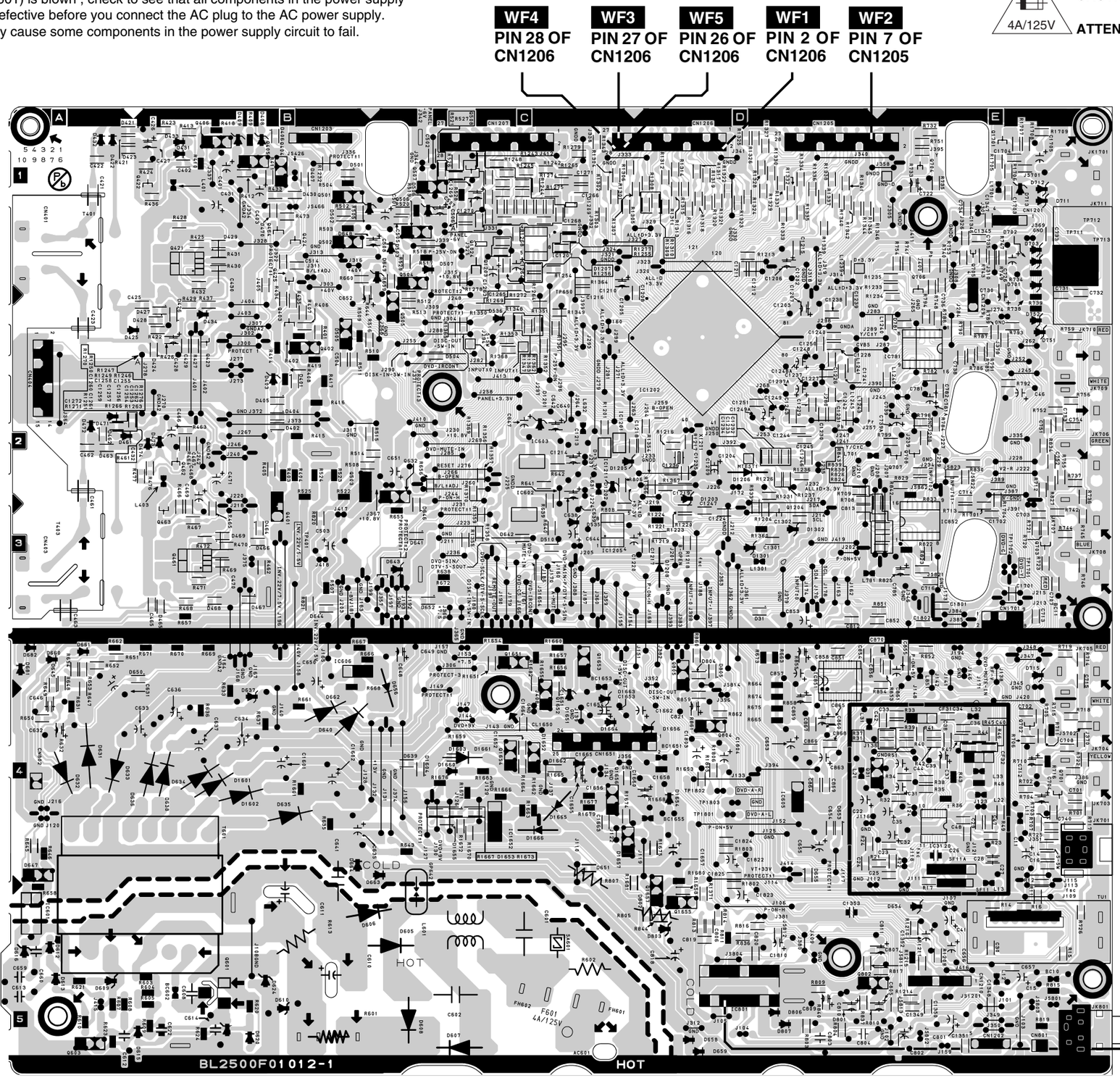
CAUTION !
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F601) is blown , check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.
Otherwise it may cause some components in the power supply circuit to fail.



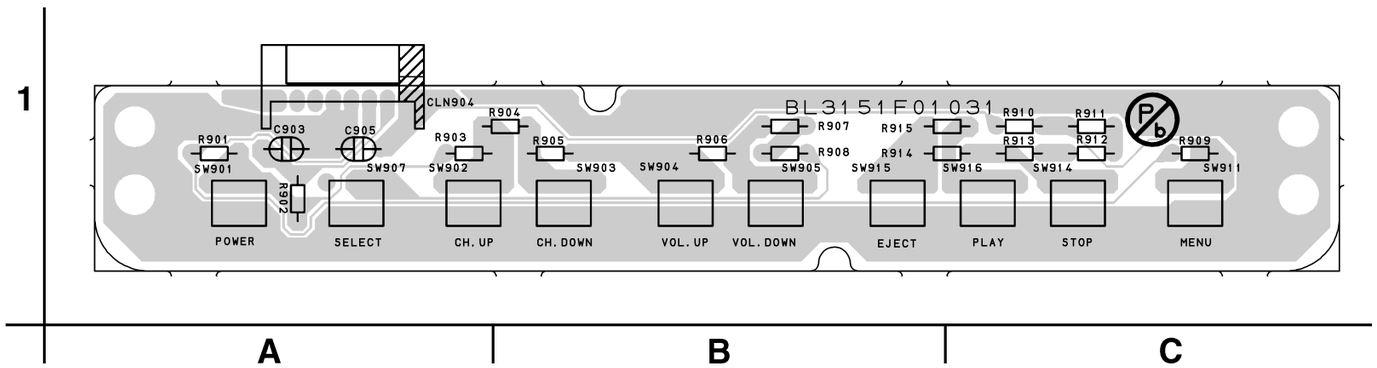
CAUTION ! : For continued protection against risk of fire, replace only with same type 4 A, 125V fuse.
ATTENTION : Utiliser un fusible de rechange de même type de 4A, 125V.

NOTE:
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

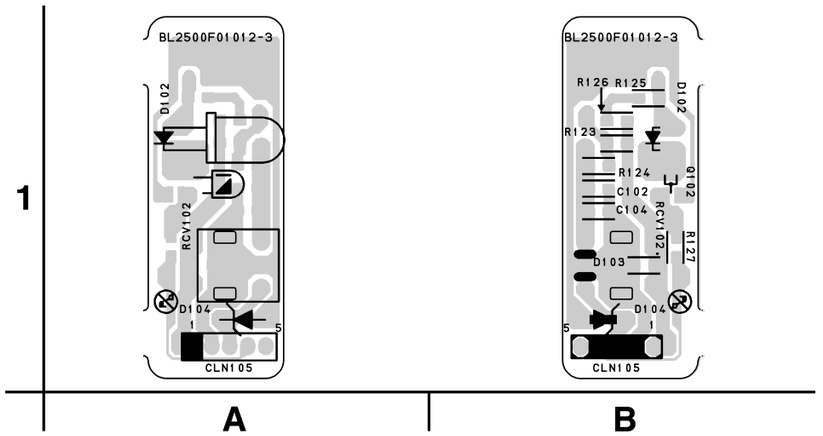
Because a hot chassis ground is present in the power supply circuit, an isolation transformer must be used. Also, in order to have the ability to increase the input slowly,when troubleshooting this type power supply circuit, a variable isolation transformer is required.



Function CBA Top View

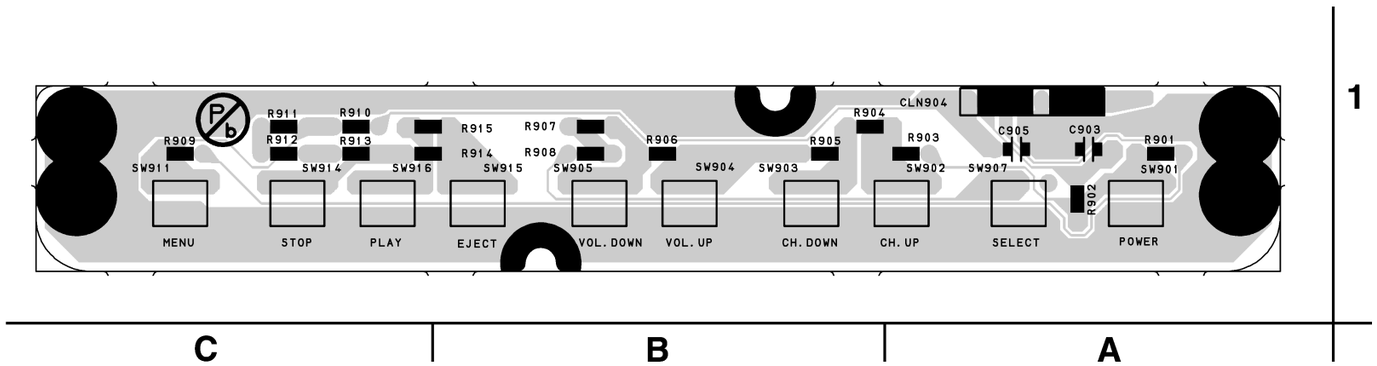


IR Sensor CBA Top View



IR Sensor CBA Bottom View

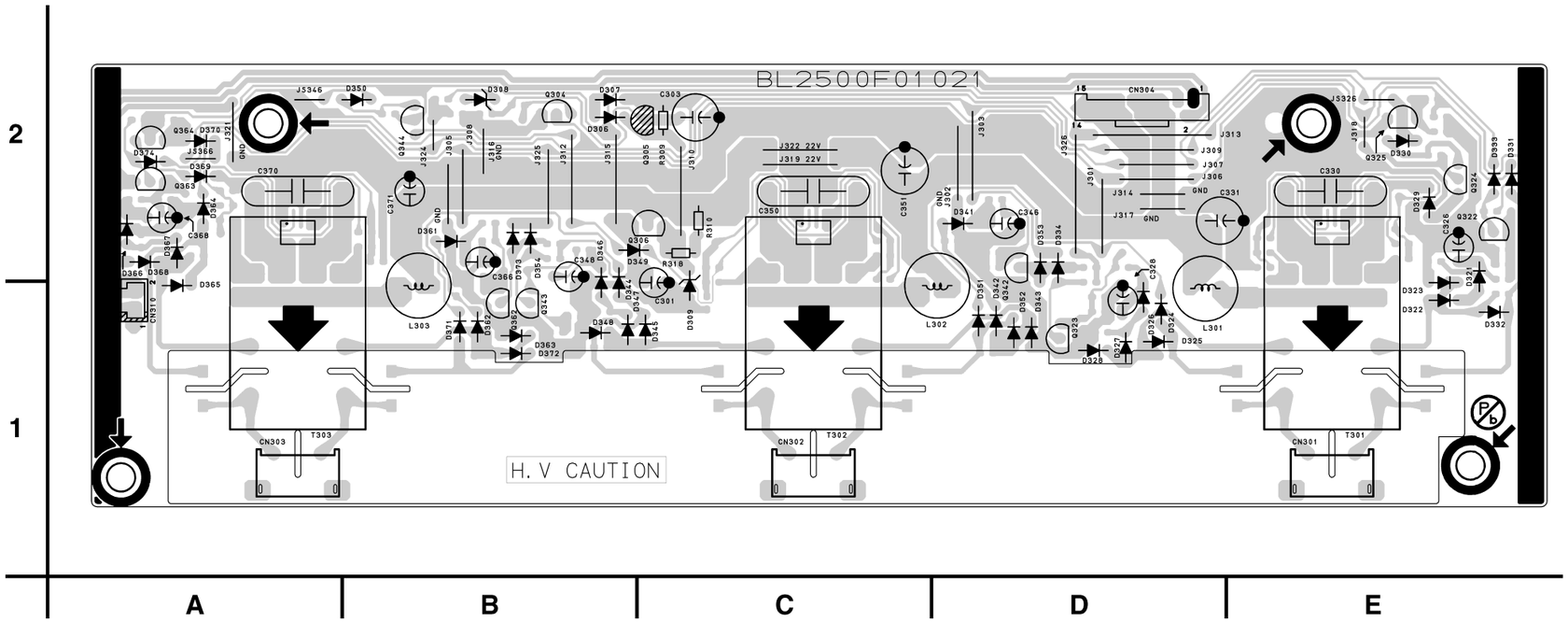
Function CBA Bottom View



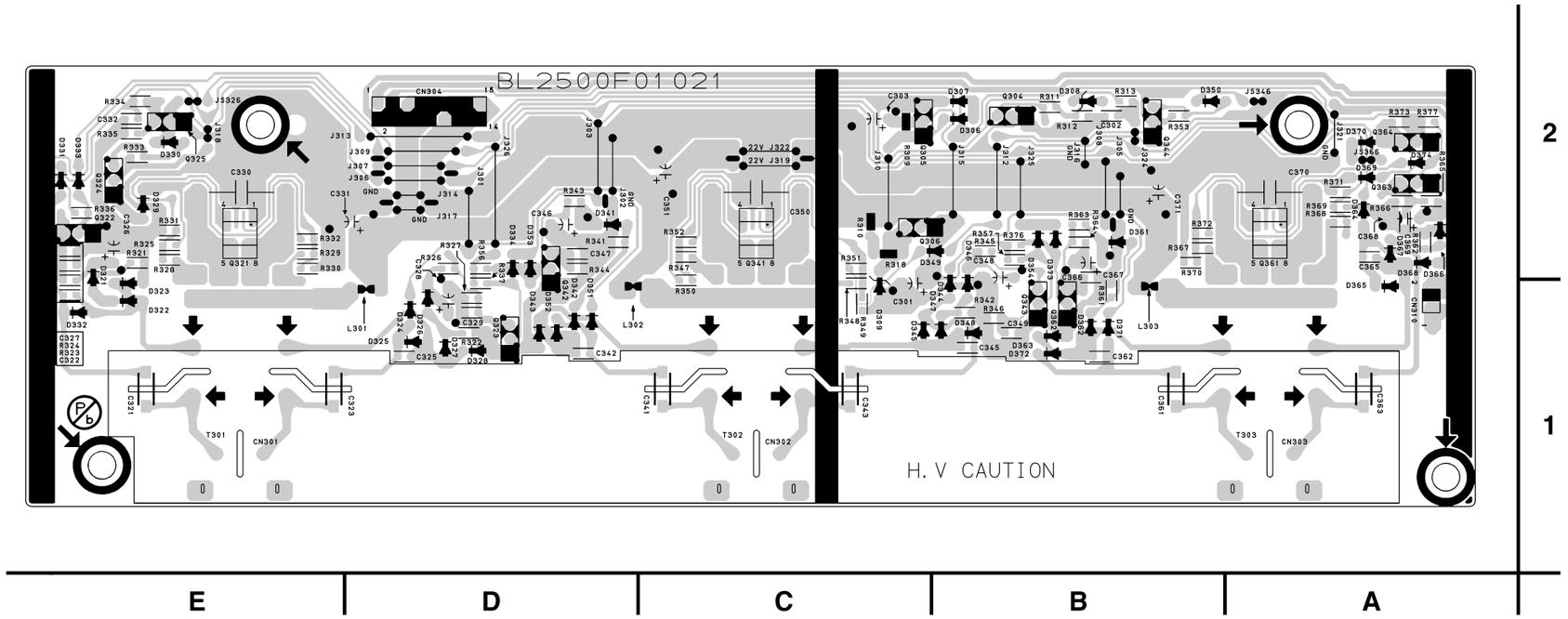
BL3151F01031

BL2500F01012-3

Inverter CBA Top View



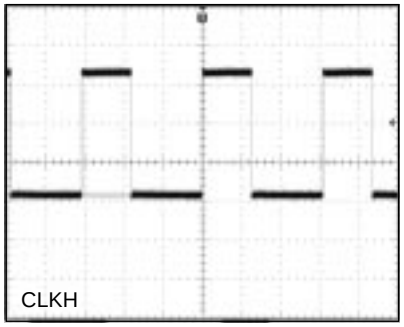
Inverter CBA Bottom View



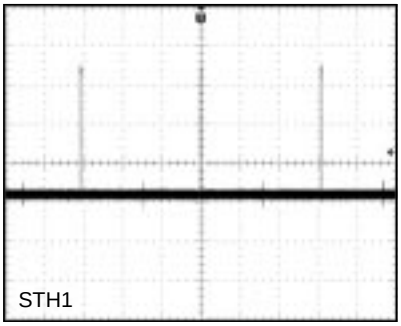
WAVEFORMS < LCD TV SECTION >

WF1 ~ WF12 = Waveforms to be observed at
Waveform check points.
(Shown in Schematic Diagram.)

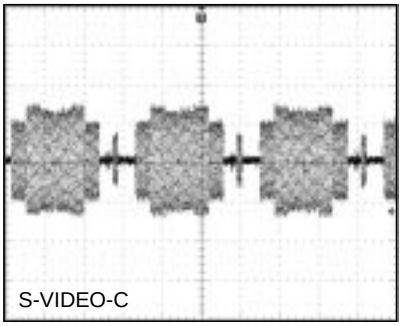
Input: NTSC Color Bar Signal (with 1kHz Audio Signal)



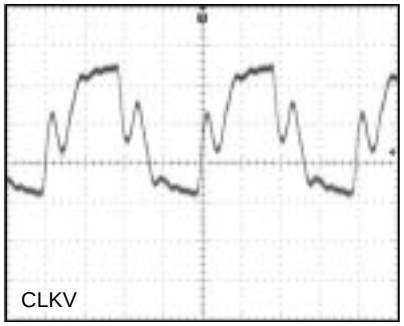
WF1 1DIV: 1.0V 10µs
Pin 2 of CN1206



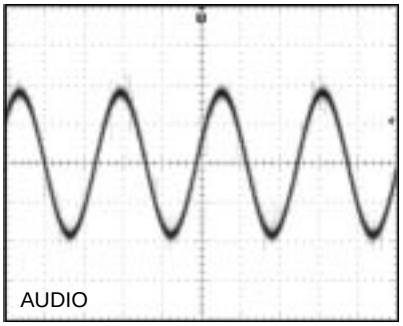
WF5 1DIV: 1.0V 10µs
Pin 26 of CN1206



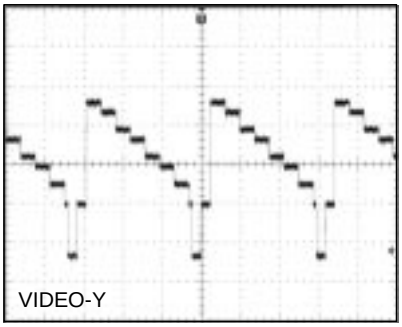
WF9 1DIV: 200mV 20µs
Pin 52 of IC1202



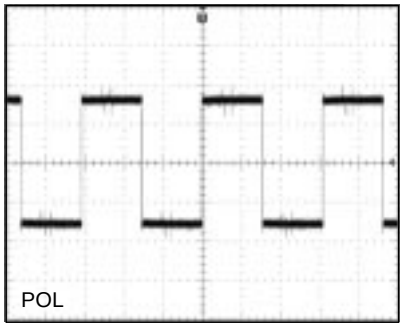
WF2 1DIV: 1.0V 20ns
Pin 7 of CN1205



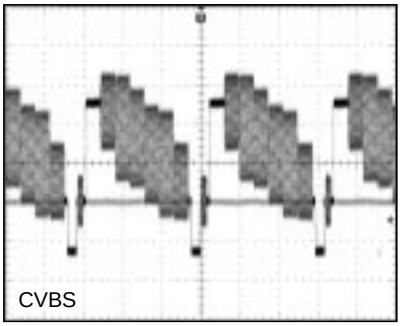
WF6 1DIV: 100mV 400 µs
Pin 14 of IC801



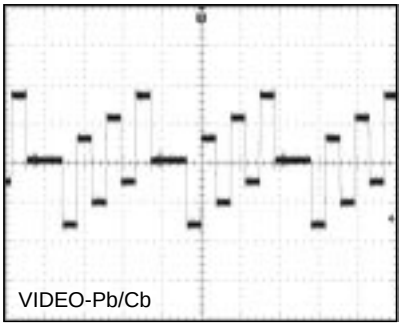
WF10 1DIV: 200mV 20µs
Pin 77 of IC1202



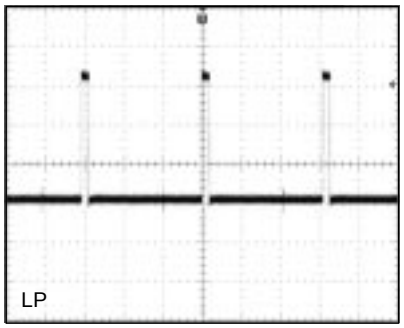
WF3 1DIV: 1.0V 20µs
Pin 27 of CN1206



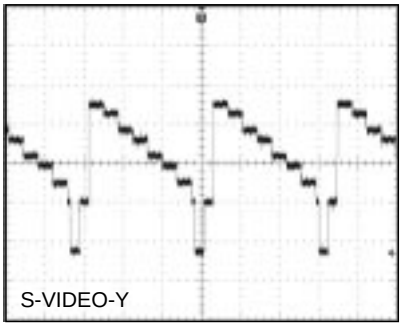
WF7 1DIV: 200mV 20µs
Pin 70 of IC1202



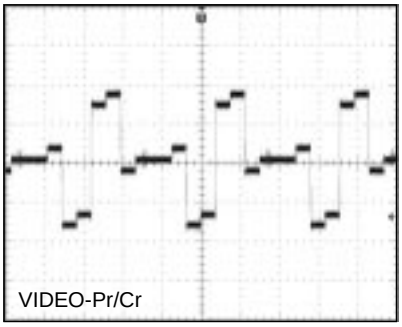
WF11 1DIV: 200mV 20µs
Pin 57 of IC1202



WF4 1DIV: 1.0V 10µs
Pin 28 of CN1206

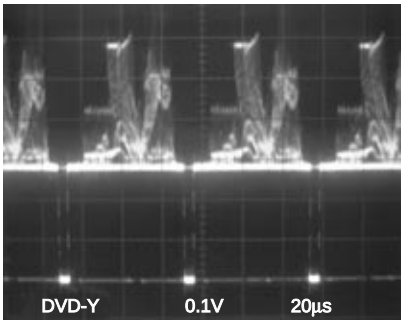


WF8 1DIV: 200mV 20µs
Pin 75 of IC1202

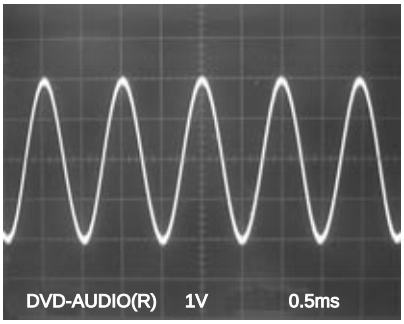


WF12 1DIV: 200mV 20µs
Pin 62 of IC1202

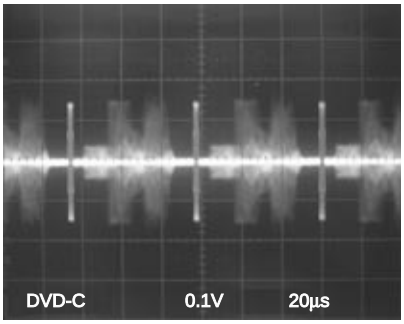
WAVEFORMS < DVD SECTION >



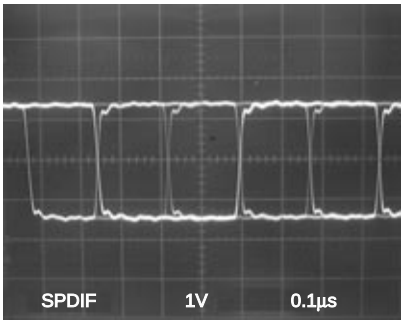
WF13 Pin 1 of CN1701



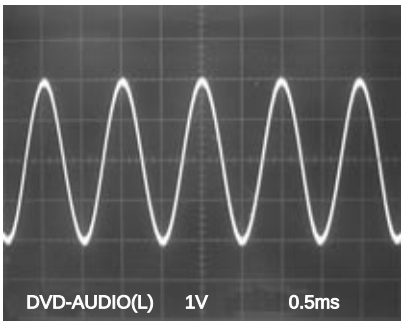
WF16 Pin 7 of CN1701



WF14 Pin 3 of CN1701



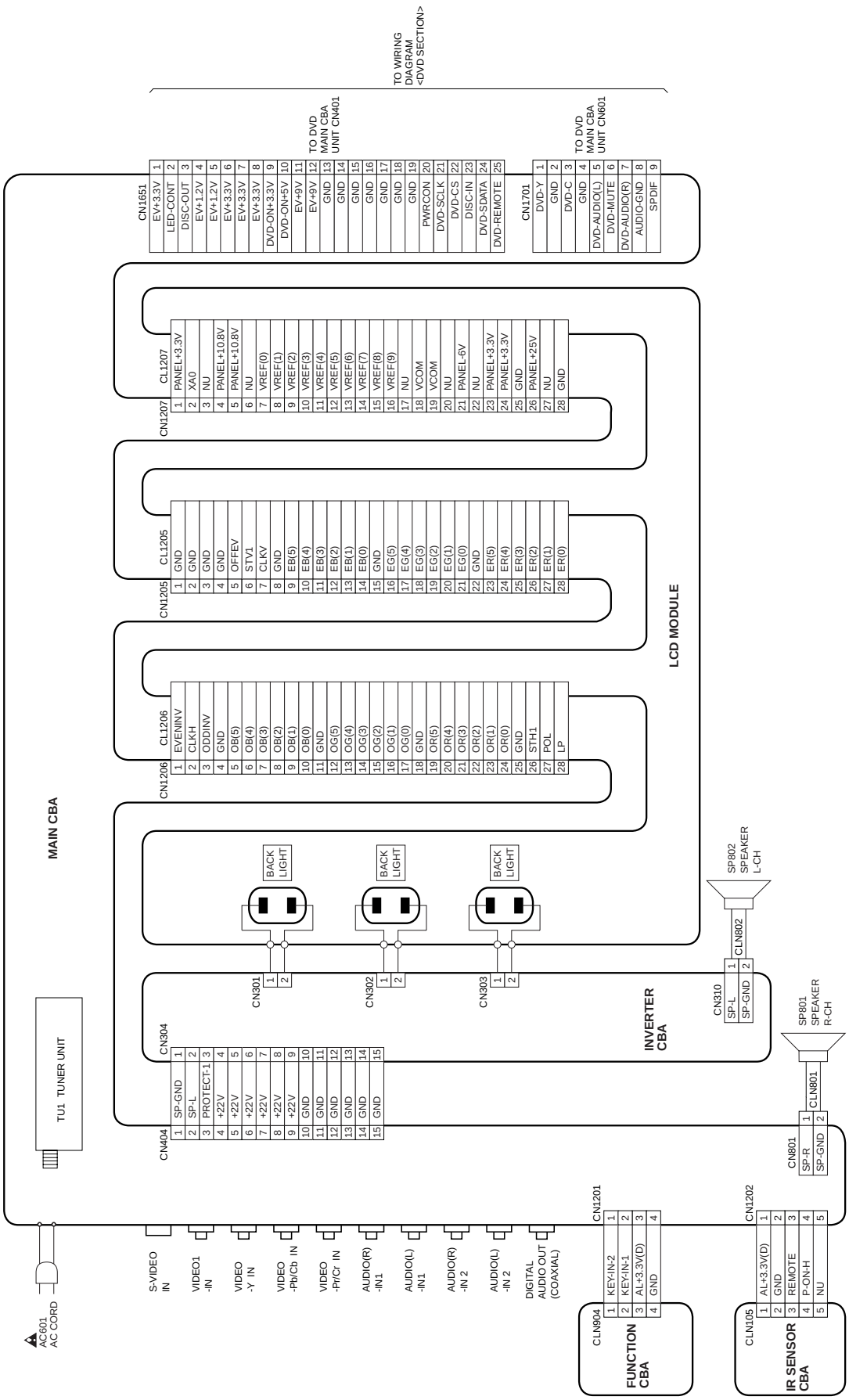
WF17 Pin 9 of CN1701



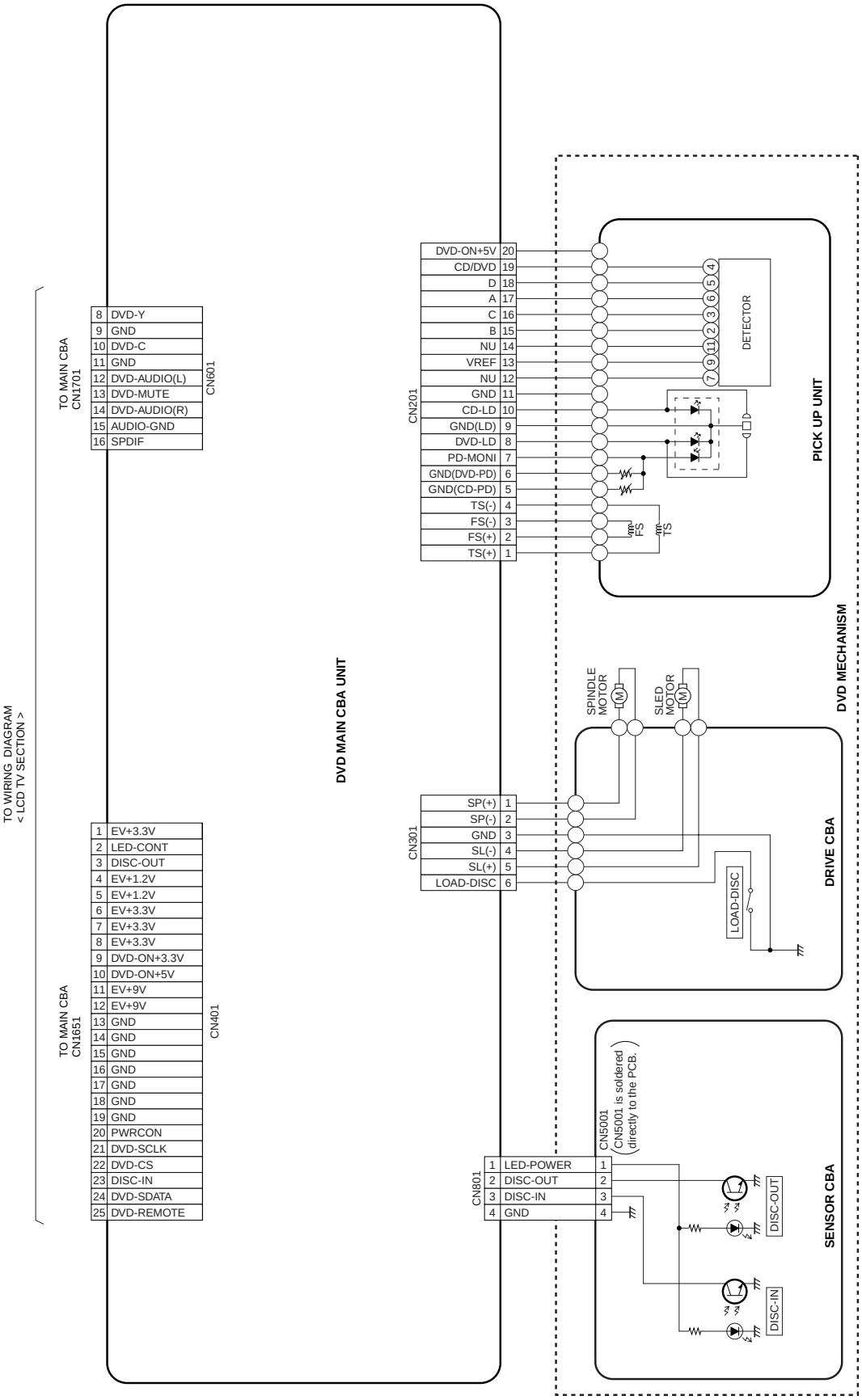
WF15 Pin 5 of CN1701

NOTE:
Input
CD: 1kHz PLAY
(WF15~WF17)
DVD: POWER ON (STOP) MODE
(WF13~WF14)

WIRING DIAGRAM < LCD TV SECTION >

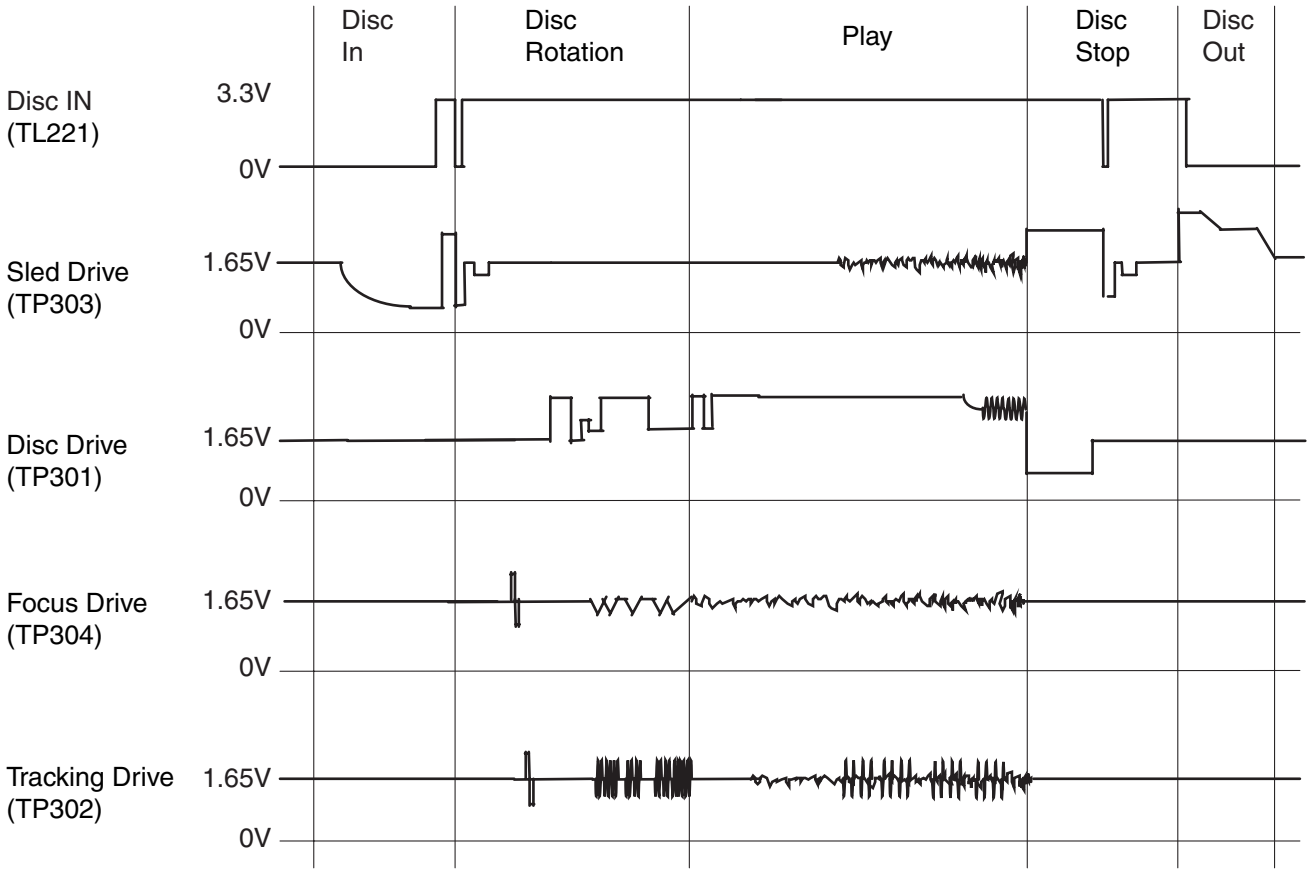


WIRING DIAGRAM < DVD SECTION >

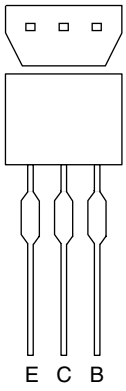


SYSTEM CONTROL TIMING CHARTS

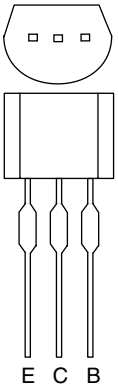
Disc In ~ Play/Play ~ Disc Out



LEAD IDENTIFICATIONS

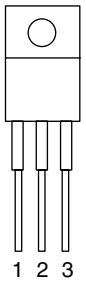


2SC2785(F)
BA1F4M-T
KTC3199-GR-AT/P



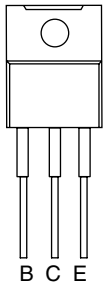
2SA1175(F)
2SA950-O(TE2 F T)
2SC2120-O(TE2 F T)
2SD400(F)

KIA7805API/P

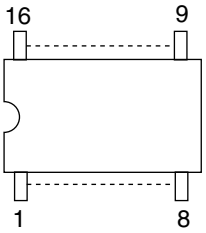


1: IN
2: GND
3: OUT

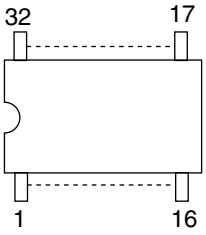
2SC4881F



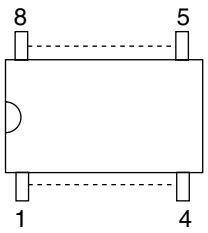
TC4053BF(EL N F)
TC4052BF(ELNF)



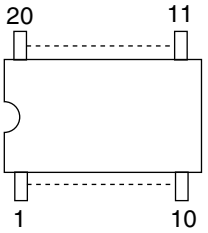
AN5832SA-E1V



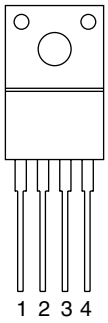
TL3472CDR



M61116FP TF0G

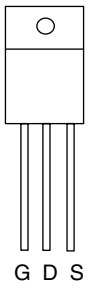


PQ070XF01SZH

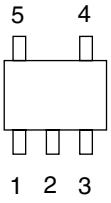


1: Vin
2: Vo
3: GND
4: Vc

2SK3869(Q)

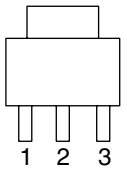


BU4223G-TR



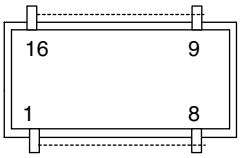
1: VOUT
2: VDD
3: GND
4: NC
5: CT

LD1117SC-R

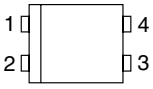


1: GND
2: Vout
3: Vin

AN17812A

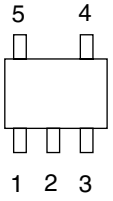


LTV-817C-F



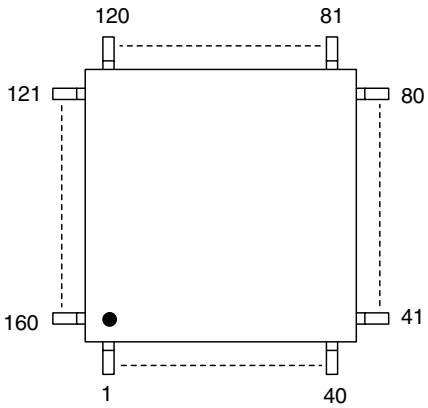
1: A
2: K
3: E
4: C

PST9223NR

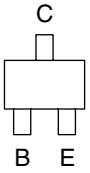


1: NC
2: SUB
3: GND
4: VOUT
5: VCC

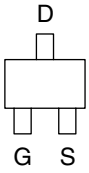
R8A01027A93FP RF0Z



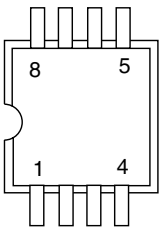
2SC4081 T106 Q



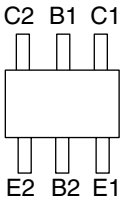
2SK3018T106



BR24L32F-WE2
HAT2215R01-EL-E



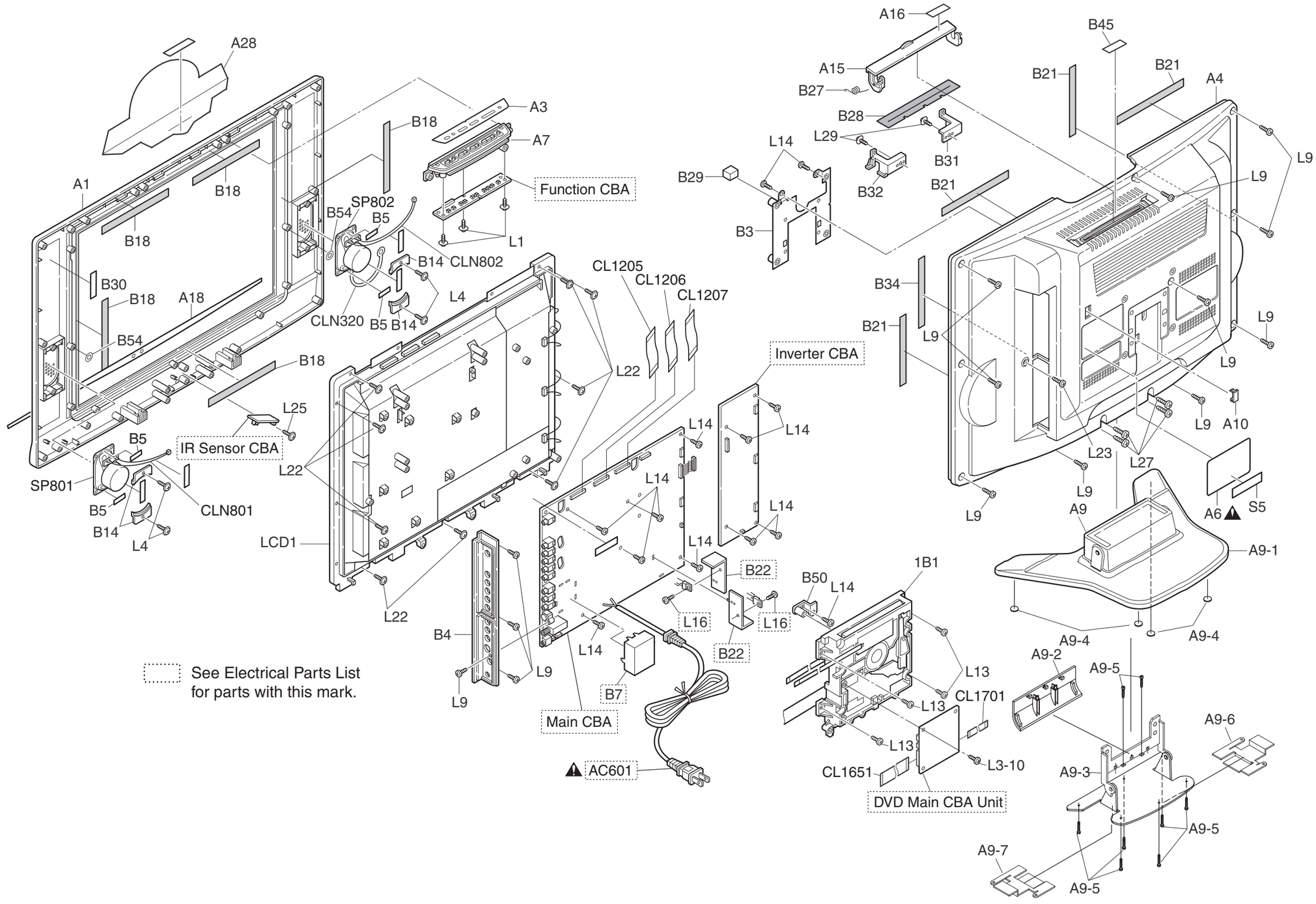
1MZ4T108



Note:
A: Anode
K: Cathode
E: Emitter
C: Collector
B: Base
R: Reference
S: Source
G: Gate
D: Drain

EXPLODED VIEWS

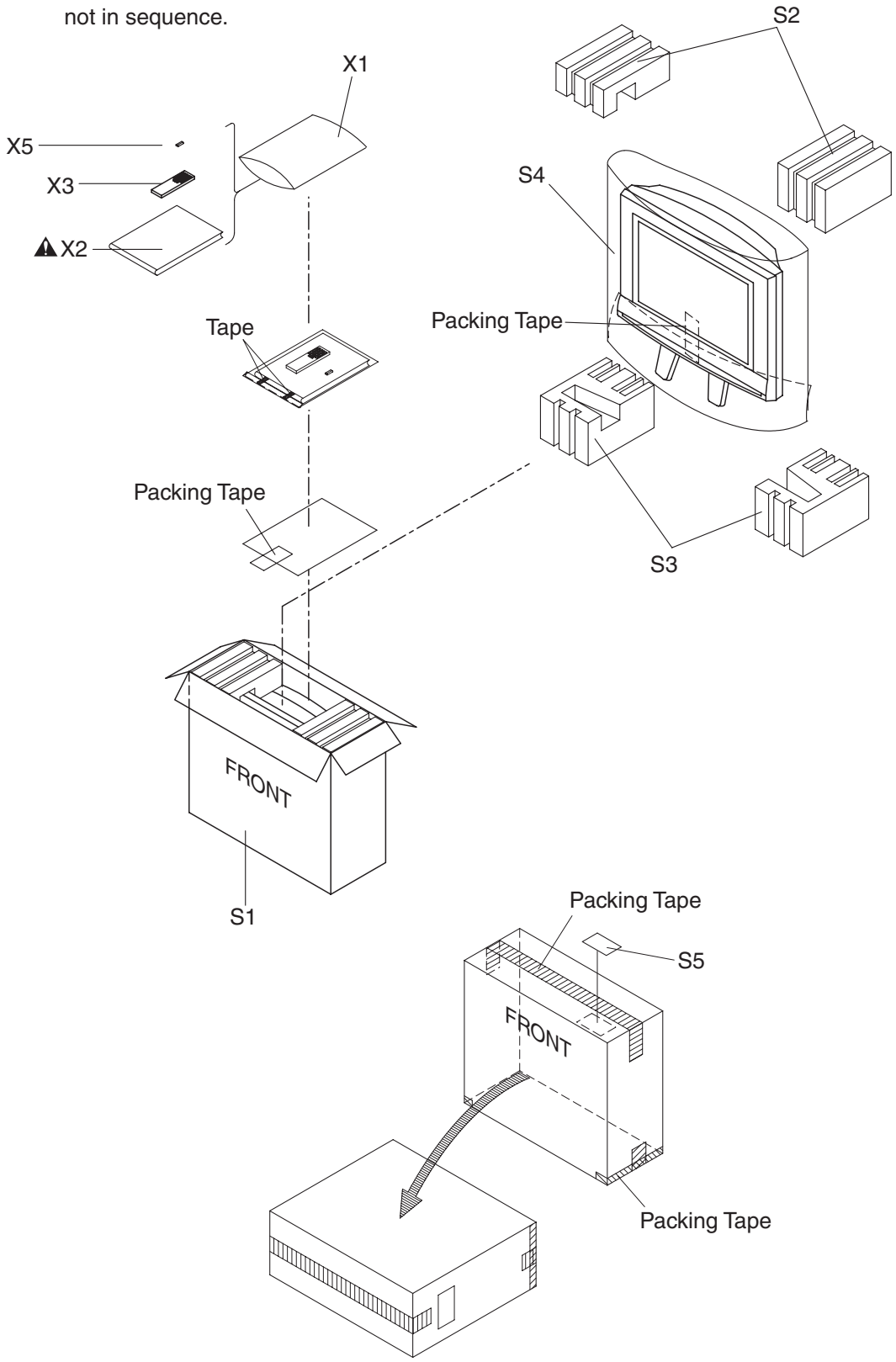
Cabinet



See Electrical Parts List for parts with this mark.

Packing

Some Ref. Numbers are not in sequence.



MECHANICAL PARTS LIST

PRODUCT SAFETY NOTE: Products marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully the product safety notice in this service manual. Don't degrade the safety of the product through improper servicing.

NOTE: Parts that are not assigned part numbers (---------) are not available.

Comparison Chart of Models and Marks

Model	Mark
6620LDT	A
6620LDG	B

Ref. No.	Mark	Description	Part No.
A1	A	FRONT CABINET L3253UD	1EM121433
A1	B	FRONT CABINET L3257UH	1EM121514
A3		CONTROL PLATE L3253UD	1EM321850
A4		REAR CABIET L3253UD	1EM020949
A6	A	RATING LABEL L2650UA	----------
A6	B	RATING LABEL L2653UD	----------
A7		FUNCTION KNOB L3253UD L3253UD	1EM220961
A9	A	TILT STAND ASSEMBLY L2650UA	1ESA13311
A9	B	TILT STAND ASSEMBLY L2653UD	1ESA13326
A9-1	A	STAND COVER L3219UK	1EM021330
A9-1	B	STAND COVER L3124UG	1EM221329
A9-2		ARM HOLDER L3219UK	1EM221304
A9-3		ARM ASSEMBLY L3219UK	1EM221283
A9-4		STAND RUBBER FOOT L4300UA	1EM422534
A9-5		SCREW P-TIGHT M3X8 BIND HEAD+ BLK	GBHP3080
A9-6		SHEET R L3219UK	1EM322093
A9-7		SHEET L L3219UK	1EM322098
A10		CONNECTER CAP L3253UD	1EM423055
A15		DVD DOOR L3253UD	1EM221041
A16		CAUTION LABEL L3150UA	----------
A18	A	FRONT PLATE L2600UA	1EM221201
A18	B	FRONT PLATE L3223UD	1EM221391
A28		POP SHEET L3152UC	1EM322096
1B1		DVD MECHA SLOT E7 N7XT0KVM	N7XT0KVM
B3		STAND HOLDER L2500UA	1EM321428
B4		JACK HOLDER L3150UA	1EM320237
B5		CLOTH(10X30XT0.5) B5900UA	0EM404486
B14		SPEAKER HOLDER L2600UA	1EM423052
B18		CLOTH(10X190XT0.3) L0200UA	1EM420019
B21		CLOTH(10X180XT0.5) L0336JG	0EM408827
B27		DVD DOOR SPRING L3152UC	1EM423200
B28		FELT L2550UA	1EM423716
B29		RUBBER CUSHION L2650UA	1EM423713
B30		LASER CAUTION LABEL L3150UA	----------
B31		DOOR HOLDER L L3253UD	1EM321669
B32		DOOR HOLDER R L3253UD	1EM321670A
B34		CLOTH 10X150XT1.0	1EM421092
B45		CLOTH 2.8 X 10 X T1.0 L3253UD	1EM423413
B50		DVD HOLDER L2650UA	1EM321687
B54		WASHER 10X5XT1.0 L4400UA	1EM423431
CL1205		WIRE ASSEMBLY 28PIN 28PIN/92MM/ WHITE	WX1L2600-001
CL1206		WIRE ASSEMBLY 28PIN 28PIN/92MM/ WHITE	WX1L2600-001
CL1207		WIRE ASSEMBLY 28PIN 28PIN/92MM/ WHITE	WX1L2600-001
CL1651		WIRE ASSEMBLY 25PIN FFC 25PIN 247MM	WX1L2650-001
CL1701		WIRE ASSEMBLY 9PIN FFC 9PIN 169MM	WX1L2550-007
CLN320		WIRE ASSEMBLY 1PIN 80MM BLACK	WX1L2600-015
CLN801		WIRE ASSEMBLY 2PIN SPEAKER 2PIN/ 325MM	WX1L2600-009
CLN802		WIRE ASSEMBLY 2PIN SPEAKER 2PIN/ 325MM	WX1L2600-009
L1		SCREW P-TIGHT 3X12 WASHER HEAD+	GCJP3120
L3-10		SCREW P-TIGHT M3X8 BIND HEAD+	GBJP3080
L4		SCREW P-TIGHT M3*10 WASHERHEAD+	GCJP3100
L9		SCREW P-TIGHT 3X10 BIND HEAD+	GBHP3100
L13		SCREW P-TIGHT M3*12 BIND+	GBJP3120
L14		SCREW P-TIGHT M3X8 BIND HEAD+	GBJP3080
L22		SCREW P-TIGHT 3X14 WASHER HEAD+	GCJP3140
L23		SCREW P-TIGHT M3X8 BIND HEAD+ BLK	GBHP3080
L25		ASSEMBLED SCREW M3X10	1EM420633A
L27		SCREW P-TIGHT M4X18 BIND HEAD+	GBHP4180
L29		SCREW P-TIGHT M3X6 BIND HEAD+	GCJP3060
LCD1		LCD MODULE ASSEMBLY UE200XA	1FSA10129
SP801		SPEAKER S0407F10	DSD0807XQ002
SP802		SPEAKER S0407F10	DSD0807XQ002
PACKING			
S1	A	CARTON L3253UD	1EM423032A
S1	B	CARTON L3257UH	1EM423196A
S2		STYROFOAM TOP L3253UD	1EM121413
S3		STYROFOAM BOTTOM T3253UD	1EM121414
S4		SET BAG L0301UB	1EM320014A
S5		SERIAL NO. LABEL L9750UA	----------
ACCESSORIES			
X1		BAG POLYETHYLENE 235X365XT0.03	0EM408420A
X2	A	OWNERS MANUAL L2650UA	1EMN21900
X2	B	OWNERS MANUAL L2653UD	1EMN21903
X3		REMOTE CONTROL 192/ECNLC3D1/ NE240UD	NE240UD
X5		DRY BATTERY R6P/2S	XB0M451T0001

ELECTRICAL PARTS LIST

PRODUCT SAFETY NOTE: Products marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully the product safety notice in this service manual. Don't degrade the safety of the product through improper servicing.

NOTES:

1. Parts that are not assigned part numbers (---------) are not available.
2. Tolerance of Capacitors and Resistors are noted with the following symbols.

C.....±0.25% D.....±0.5% F.....±1%

G.....±2% J.....±5% K.....±10%

M.....±20% N.....±30% Z.....+80/-20%

Comparison Chart of Models and Marks

Model	Mark
6620LDT	A
6620LDG	B

DVD MAIN CBA UNIT

Ref. No.	Description	Part No.
	DVD MAIN CBA UNIT	N7ET0KUP

MMA CBA

Ref. No.	Description	Part No.
	MMA CBA Consists of the following:	1ESA13267
	MAIN CBA IR SENSOR CBA	---------- ----------

MAIN CBA

Ref. No.	Description	Part No.
	MAIN CBA Consists of the following:	----------
	CAPACITORS	
C11	ELECTROLYTIC CAP. 47µF/ 50V M	CE1JMASDL470
C15	ELECTROLYTIC CAP. 47µF/ 50V M	CE1JMASDL470
C22	ELECTROLYTIC CAP. 100µF/ 10V M	CE1AMASDL101
C23	CHIP CERAMIC CAP.(1608) CH J 1000pF/50V	CHD1JJ3CH102
C24	CHIP CERAMIC CAP.(1608) CH J 1000pF/50V	CHD1JJ3CH102
C25	CHIP CERAMIC CAP.(1608) B K 0.01µF/ 50V	CHD1JK30B103
C26	PCB JUMPER D0.6-P5.0	JW5.0T
C27	FILM CAP.(P) 0.018µF/ 50V J	CA1J183MS029
C28	CHIP CERAMIC CAP.(1608) B K 0.047µF/ 50V	CHD1JK30B473
C29	CHIP CERAMIC CAP. CH D 3pF/50V	CHD1JD3CH3R0
C30	CHIP CERAMIC CAP.(1608) B K 0.01µF/ 50V	CHD1JK30B103
C31	PCB JUMPER D0.6-P5.0	JW5.0T
C32	ELECTROLYTIC CAP. 100µF/ 10V M	CE1AMASDL101
C34	CHIP CERAMIC CAP.(1608) CH J 47pF/50V	CHD1JJ3CH470
C35	ELECTROLYTIC CAP. 1µF/ 50V M	CE1JMASDL1R0
C36	CHIP CERAMIC CAP.(1608) CH J 47pF/50V	CHD1JJ3CH470
C37	CHIP CERAMIC CAP. CH J 680pF/50V	CHD1JJ3CH681
C39	ELECTROLYTIC CAP. 0.47µF/ 50V M	CE1JMASDLR47
C41	ELECTROLYTIC CAP. 4.7µF/ 50V M	CE1JMASDL4R7
C42	CHIP CERAMIC CAP.(1608) B K 0.01µF/ 50V	CHD1JK30B103
C44	ELECTROLYTIC CAP. 100µF/ 10V M	CE1AMASDL101
C46	ELECTROLYTIC CAP. 47µF/ 16V M	CE1CMASDL470
C47	CHIP CERAMIC CAP. CH D 6pF/50V	CHD1JD3CH6R0
C48	CHIP CERAMIC CAP. CH D 3pF/50V	CHD1JD3CH3R0
C501	ELECTROLYTIC CAP. 22µF/ 50V M H7	CE1JMASSL220
C502	CHIP CERAMIC CAP.(1608) B K 0.01µF/ 50V	CHD1JK30B103
C503	ELECTROLYTIC CAP. 220µF/ 16V M	CE1CMASDL221
C504	CHIP CERAMIC CAP.(1608) B K 0.01µF/ 50V	CHD1JK30B103
C505	CHIP CERAMIC CAP.(1608) B K 0.01µF/ 50V	CHD1JK30B103
C506	ELECTROLYTIC CAP. 100µF/ 10V M H7	CE1AMASSL101
C507	CHIP CERAMIC CAP.(1608) B K 0.01µF/ 50V	CHD1JK30B103
C508	ELECTROLYTIC CAP. 10µF/ 50V M H7	CE1JMASSL100
C601⚠	METALIZED FILM CAP. 0.22µF/ 250V	CT2E224MS037
C602⚠	METALIZED FILM CAP. 0.1µF/ 250V	CT2E104MS037
C608	CERAMIC CAP. B K 1000pF/2KV	CCD3DKP0B102
C610⚠	ELECTROLYTIC CAP. 100µF/ 200V M	CE2DMZPDL101
C611⚠	ELECTROLYTIC CAPACIT0R 150µF/ 200V	CA2D151S6012
C612	FILM CAP.(P) 0.01µF/ 50V J	CMA1JJS00103
C613	FILM CAP.(P) 0.056µF/ 50V J	CMA1JJS00563
C614	FILM CAP.(P) 0.0015µF/ 50V J	CMA1JJS00152
C631⚠	ELECTROLYTIC CAP. 2200µF/ 25V M	CE1EMZPDL222
C632⚠	ELECTROLYTIC CAP. 22µF/ 100V M	CE2AMASDL220
C633⚠	ELECTROLYTIC CAP. 220µF/ 16V M	CE1CMASDL221
C634⚠	ELECTROLYTIC CAP. 1000µF/ 10V M	CE1AMASDL102
C635⚠	ELECTROLYTIC CAP. 470µF/ 25V M	CE1EMASDL471
C636⚠	ELECTROLYTIC CAP. 220µF/ 50V M	CE1JMASDL221
C637⚠	ELECTROLYTIC CAP. 470µF/ 16V M	CE1CMASDL471
C638	CHIP CERAMIC CAP.(1608) B K 0.22µF/ 16V	CHD1CK30B224
C639	ELECTROLYTIC CAP. 330µF/ 6.3V M H7	CE0KMASSL331
C640	CHIP CERAMIC CAP.(1608) B K 0.22µF/ 16V	CHD1CK30B224
C641⚠	SAFETY CAP. 4700pF/250V KX	CA2E472MR050
C642	ELECTROLYTIC CAP. 220µF/ 6.3V M H7	CE0KMASSL221
C644	ELECTROLYTIC CAP. 220µF/ 6.3V M H7	CE0KMASSL221
C646	FILM CAP.(P) 0.082µF/ 50V J	CMA1JJS00823
C647	ELECTROLYTIC CAP. 220µF/ 6.3V M H7	CE0KMASSL221
C648	CHIP CERAMIC CAP.(1608) B K 0.22µF/ 16V	CHD1CK30B224
C649	ELECTROLYTIC CAP. 470µF/ 16V M	CE1CMASDL471
C650	ELECTROLYTIC CAP. 330µF/ 25V M	CE1EMASDL331
C652⚠	ELECTROLYTIC CAP. 10µF/ 50V M H7	CE1JMASSL100
C653	ELECTROLYTIC CAP. 470µF/ 16V M	CE1CMASDL471
C654	CHIP CERAMIC CAP.(1608) B K 0.22µF/ 16V	CHD1CK30B224
C655	ELECTROLYTIC CAP. 470µF/ 6.3V M	CE0KMASDL471
C656	ELECTROLYTIC CAP. 1µF/ 50V M	CE1JMASDL1R0
C657	CHIP CERAMIC CAP.(1608) B K 0.01µF/ 50V	CHD1JK30B103
C659	FILM CAP.(P) 0.022µF/ 50V J	CMA1JJS00223
C660	FILM CAP.(P) 0.015µF/ 50V J	CMA1JJS00153
C704	ELECTROLYTIC CAP. 47µF/ 16V M	CE1CMASDL470
C707	CHIP CERAMIC CAP.(1608) CH J 1000pF/50V	CHD1JJ3CH102
C708	CHIP CERAMIC CAP.(1608) CH J 100pF/50V	CHD1JJ3CH101
C712	ELECTROLYTIC CAP. 47µF/ 16V M	CE1CMASDL470
C713	CHIP CERAMIC CAP.(1608) B K 3300pF/50V	CHD1JK30B332
C714	CHIP CERAMIC CAP. F Z 1µF/ 10V	CHD1AZ30F105
C715	CHIP CERAMIC CAP.(1608) B K 3300pF/50V	CHD1JK30B332
C716	CHIP CERAMIC CAP. F Z 1µF/ 10V	CHD1AZ30F105
C722	ELECTROLYTIC CAP. 47µF/ 16V M H7	CE1CMASSL470
C726	ELECTROLYTIC CAP. 47µF/ 16V M	CE1CMASDL470

Ref. No.	Description	Part No.
C730	ELECTROLYTIC CAP. 47μF/ 16V M	CE1CMASDL470
C739A	ELECTROLYTIC CAP. 100μF/ 10V M H7	CE1AMAVSL101
C740	CHIP CERAMIC CAP.(1608) CH J 100pF/50V	CHD1JJ3CH101
C751	CHIP CERAMIC CAP. F Z 1μF/ 10V	CHD1AZ30F105
C752	CHIP CERAMIC CAP. F Z 1μF/ 10V	CHD1AZ30F105
C753	CHIP CERAMIC CAP.(1608) B K 3300pF/50V	CHD1JK30B332
C754	CHIP CERAMIC CAP.(1608) B K 3300pF/50V	CHD1JK30B332
C781A	ELECTROLYTIC CAP. 10μF/ 50V M H7	CE1JMAVSL100
C782	CHIP CERAMIC CAP.(1608) B K 0.1μF/ 50V	CHD1JK30B104
C785	ELECTROLYTIC CAP. 100μF/ 10V M H7	CE1AMASSL101
C801	ELECTROLYTIC CAP. 220μF/ 16V M	CE1CMASDL221
C802	ELECTROLYTIC CAP. 220μF/ 16V M	CE1CMASDL221
C805	ELECTROLYTIC CAP. 10μF/ 50V M	CE1JMASDL100
C806	CHIP CERAMIC CAP. F Z 1μF/ 10V	CHD1AZ30F105
C807	CHIP CERAMIC CAP. F Z 1μF/ 10V	CHD1AZ30F105
C809	ELECTROLYTIC CAP. 10μF/ 50V M	CE1JMASDL100
C810	ELECTROLYTIC CAP. 2.2μF/ 50V M	CE1JMASDL2R2
C811	ELECTROLYTIC CAP. 100μF/ 16V M	CE1CMASDL101
C812	CHIP CERAMIC CAP. F Z 1μF/ 10V	CHD1AZ30F105
C813	CHIP CERAMIC CAP. F Z 1μF/ 10V	CHD1AZ30F105
C818	ELECTROLYTIC CAP. 470μF/ 16V M	CE1CMASDL471
C819	CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JK30B222
C820	CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JK30B222
C853	ELECTROLYTIC CAP. 2.2μF/ 50V M H7	CE1JMASSL2R2
C854	CHIP CERAMIC CAP.(1608) B K 0.1μF/ 50V	CHD1JK30B104
C855	CHIP CERAMIC CAP.(1608) B K 0.1μF/ 50V	CHD1JK30B104
C856	CHIP CERAMIC CAP.(1608) B K 0.33μF/ 10V	CHD1AK30B334
C857	ELECTROLYTIC CAP. 2.2μF/ 50V M	CE1JMASDL2R2
C858	ELECTROLYTIC CAP. 2.2μF/ 50V M H7	CE1JMASSL2R2
C859	ELECTROLYTIC CAP. 4.7μF/ 50V M	CE1JMASDL4R7
C860	ELECTROLYTIC CAP. 10μF/ 50V M	CE1JMASDL100
C861	ELECTROLYTIC CAP. 100μF/ 10V M	CE1AMASDL101
C863	ELECTROLYTIC CAP. 2.2μF/ 50V M	CE1JMASDL2R2
C864	CHIP CERAMIC CAP.(1608) B K 0.022μF/ 25V	CHD1EK30B223
C865	CHIP CERAMIC CAP.(1608) B K 0.1μF/ 50V	CHD1JK30B104
C866	CHIP CERAMIC CAP. F Z 2.2μF/ 10V	CHD1AZ30F225
C867	CHIP CERAMIC CAP. F Z 2.2μF/ 10V	CHD1AZ30F225
C868	CHIP CERAMIC CAP.(1608) B K 1μF/ 10V	CHD1AK30B105
C869	CHIP CERAMIC CAP.(1608) B K 0.022μF/ 50V	CHD1JK30B223
C1202	ELECTROLYTIC CAP. 47μF/ 16V M H7	CE1CMASSL470
C1204	ELECTROLYTIC CAP. 47μF/ 16V M H7	CE1CMASSL470
C1205	ELECTROLYTIC CAP. 100μF/ 6.3V M H7	CE0KMASSL101
C1206	CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 25V	CHD1EZ30F104
C1207	CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 25V	CHD1EZ30F104
C1208	CHIP CERAMIC CAP.(1608) B K 0.01μF/ 50V	CHD1JK30B103
C1209	CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 25V	CHD1EZ30F104
C1210	CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 25V	CHD1EZ30F104
C1211	CHIP CERAMIC CAP.(1608) CH J 1000pF/50V	CHD1JJ3CH102
C1212	CHIP CERAMIC CAP.(1608) B K 0.01μF/ 50V	CHD1JK30B103
C1213	ELECTROLYTIC CAP. 100μF/ 6.3V M H7	CE0KMASSL101
C1214	CHIP CERAMIC CAP.(1608) B K 0.22μF/ 16V	CHD1CK30B224
C1215	CHIP CERAMIC CAP.(1608) B K 0.01μF/ 50V	CHD1JK30B103
C1216	CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 25V	CHD1EZ30F104
C1217	CHIP CERAMIC CAP.(1608) B K 0.01μF/ 50V	CHD1JK30B103
C1218	CHIP CERAMIC CAP.(1608) B K 0.01μF/ 50V	CHD1JK30B103
C1219	CHIP CERAMIC CAP.(1608) CH J 47pF/50V	CHD1JJ3CH470
C1220	ELECTROLYTIC CAP. 330μF/ 6.3V M H7	CE0KMASSL331
C1224	CHIP CERAMIC CAP.(1608) CH J 47pF/50V	CHD1JJ3CH470
C1226	CHIP CERAMIC CAP.(1608) B K 0.1μF/ 50V	CHD1JK30B104
C1227	CHIP CERAMIC CAP.(1608) B K 0.1μF/ 50V	CHD1JK30B104
C1228	CHIP CERAMIC CAP.(1608) B K 0.1μF/ 50V	CHD1JK30B104
C1229	CHIP CERAMIC CAP.(1608) B K 0.1μF/ 50V	CHD1JK30B104
C1230	CHIP CERAMIC CAP.(1608) B K 0.1μF/ 50V	CHD1JK30B104

Ref. No.	Description	Part No.
C1231	CHIP CERAMIC CAP.(1608) B K 0.1μF/ 50V	CHD1JK30B104
C1232	CHIP CERAMIC CAP.(1608) B K 0.1μF/ 50V	CHD1JK30B104
C1233	CHIP CERAMIC CAP.(1608) B K 0.1μF/ 50V	CHD1JK30B104
C1234	CHIP CERAMIC CAP.(1608) B K 0.1μF/ 50V	CHD1JK30B104
C1235	CHIP CERAMIC CAP.(1608) CH J 33pF/50V	CHD1JJ3CH330
C1236	CHIP CERAMIC CAP.(1608) CH J 33pF/50V	CHD1JJ3CH330
C1237A	ELECTROLYTIC CAP. 100μF/ 6.3V H7	CE0KMAVSL101
C1239	CHIP CERAMIC CAP.(1608) B K 0.1μF/ 50V	CHD1JK30B104
C1240	CHIP CERAMIC CAP.(1608) B K 0.1μF/ 50V	CHD1JK30B104
C1241	CHIP CERAMIC CAP.(1608) B K 0.1μF/ 50V	CHD1JK30B104
C1243	CHIP CERAMIC CAP.(1608) B K 0.1μF/ 50V	CHD1JK30B104
C1245	CHIP CERAMIC CAP.(1608) B K 0.1μF/ 50V	CHD1JK30B104
C1246	CHIP CERAMIC CAP.(1608) B K 0.1μF/ 50V	CHD1JK30B104
C1249A	ELECTROLYTIC CAP. 47μF/ 16V M H7	CE1CMAVSL470
C1250	CHIP CERAMIC CAP.(1608) B K 0.01μF/ 50V	CHD1JK30B103
C1251	CHIP CERAMIC CAP.(1608) B K 0.01μF/ 50V	CHD1JK30B103
C1253	CHIP CERAMIC CAP.(1608) B K 0.22μF/ 16V	CHD1CK30B224
C1254	CHIP CERAMIC CAP.(1608) B K 0.22μF/ 16V	CHD1CK30B224
C1255	CHIP CERAMIC CAP.(1608) B K 0.22μF/ 16V	CHD1CK30B224
C1256	CHIP CERAMIC CAP.(1608) B K 0.22μF/ 16V	CHD1CK30B224
C1257	CHIP CERAMIC CAP.(1608) B K 0.22μF/ 16V	CHD1CK30B224
C1258	CHIP CERAMIC CAP.(1608) B K 0.22μF/ 16V	CHD1CK30B224
C1259	CHIP CERAMIC CAP.(1608) B K 0.22μF/ 16V	CHD1CK30B224
C1260	CHIP CERAMIC CAP.(1608) B K 0.22μF/ 16V	CHD1CK30B224
C1261	CHIP CERAMIC CAP.(1608) B K 0.22μF/ 16V	CHD1CK30B224
C1262	CHIP CERAMIC CAP.(2125) B K 4.7μF/ 16V	CHE1CK30B475
C1263	ELECTROLYTIC CAP. 47μF/ 16V M H7	CE1CMASSL470
C1264	ELECTROLYTIC CAP. 47μF/ 16V M H7	CE1CMASSL470
C1265	CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 25V	CHD1EZ30F104
C1266	CHIP CERAMIC CAP.(1608) B K 1μF/ 10V	CHD1AK30B105
C1268	CHIP CERAMIC CAP.(1608) B K 0.1μF/ 50V	CHD1JK30B104
C1269	ELECTROLYTIC CAP. 4.7μF/ 50V M H7	CE1JMASSL4R7
C1270	CHIP CERAMIC CAP.(1608) B K 1μF/ 10V	CHD1AK30B105
C1271	CHIP CERAMIC CAP.(1608) B K 1μF/ 10V	CHD1AK30B105
C1302	CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 25V	CHD1EZ30F104
C1345	CHIP CERAMIC CAP.(1608) CH J 1000pF/50V	CHD1JJ3CH102
C1346	CHIP CERAMIC CAP.(1608) CH J 1000pF/50V	CHD1JJ3CH102
C1347	CHIP CERAMIC CAP.(1608) CH J 1000pF/50V	CHD1JJ3CH102
C1352	ELECTROLYTIC CAP. 47μF/ 10V M	CE1AMASDL470
C1601	ELECTROLYTIC CAP. 1000μF/ 10V M	CE1AMASDL102
C1602	ELECTROLYTIC CAP. 2200μF/ 16V M	CE1CMZPDL222
C1652	CHIP CERAMIC CAP.(1608) B K 0.01μF/ 50V	CHD1JK30B103
C1653	ELECTROLYTIC CAP. 100μF/ 10V M	CE1AMASDL101
C1654	CHIP CERAMIC CAP.(1608) B K 0.01μF/ 50V	CHD1JK30B103
C1655	CHIP CERAMIC CAP.(1608) B K 0.01μF/ 50V	CHD1JK30B103
C1656	ELECTROLYTIC CAP. 100μF/ 10V M	CE1AMASDL101
C1657	ELECTROLYTIC CAP. 2200μF/ 6.3V M	CE0KMZPDL222
C1658	ELECTROLYTIC CAP. 470μF/ 6.3V M	CE0KMASDL471
C1662	ELECTROLYTIC CAP. 220μF/ 6.3V M	CE0KMASDL221
C1703	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
C1705	ELECTROLYTIC CAP. 47μF/ 16V M	CE1CMASDL470
C1801	CHIP CERAMIC CAP.(1608) CH J 100pF/50V	CHD1JJ3CH101
C1802	CHIP CERAMIC CAP.(1608) CH J 100pF/50V	CHD1JJ3CH101
C1803	PCB JUMPER D0.6-P5.0	JW5.0T
C1804	PCB JUMPER D0.6-P5.0	JW5.0T
C1810	ELECTROLYTIC CAP. 2.2μF/ 50V M	CE1JMASDL2R2
C1822	ELECTROLYTIC CAP. 10μF/ 50V M	CE1JMASDL100
C1823	ELECTROLYTIC CAP. 10μF/ 50V M	CE1JMASDL100
C1824	CHIP CERAMIC CAP.(1608) B K 6800pF/50V	CHD1JK30B682
C1825	CHIP CERAMIC CAP.(1608) B K 6800pF/50V	CHD1JK30B682
CONNECTORS		
CN404	TWG CONNECTOR 15P TWG-P15P-A1	J3TWA15TG001

Ref. No.	Description	Part No.
CN801	CONNECTOR PRINT OSU 008283021200000S+	J383C02UG004
CN1201	PH CONNECTOR TOP 4P B4B-PH-K-S (LF)(SN)	J3PHC04JG029
CN1202	CONNECTOR PRINT OSU B5B-PH-K-S (LF)(SN)	J3PHC05JG029
CN1205	CONNECTOR PRINT MES G/28/R/28FMN-STK-A(L	JCFNG28JG021
CN1206	CONNECTOR PRINT MES G/28/R/28FMN-STK-A(L	JCFNG28JG021
CN1207	CONNECTOR PRINT MES G/28/R/28FMN-STK-A(L	JCFNG28JG021
CN1209	PH CONNECTOR TOP 4P B4B-PH-K-S (LF)(SN)	J3PHC04JG029
CN1651	FMN CONNECTOR TOP25P 25FMN-BTK-A(LF)(SN)	JCFNG25JG019
CN1701	CONNECTOR PRINT MES G/09/S/09FMN-BTRK-A(	JCFNG09JG020
DIODES		
D31	SWITCHING DIODE 1SS400	QD1Z001SS400
D401	SWITCHING DIODE 1SS400	QD1Z001SS400
D402	SWITCHING DIODE 1SS400	QD1Z001SS400
D403	ZENER DIODE MTZJT-7718B	QDTB00MTZJ18
D404	SWITCHING DIODE 1SS400	QD1Z001SS400
D405	SWITCHING DIODE 1SS400	QD1Z001SS400
D501	SWITCHING DIODE 1SS400	QD1Z001SS400
D502	ZENER DIODE MTZJT-7724B	QDTB00MTZJ24
D503	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D504	SWITCHING DIODE 1SS400	QD1Z001SS400
D505	IC SHUNT REGULATOR KIA431-AT/P	NSZBA0TJY036
D506	ZENER DIODE MTZJT-776.2B	QDTB0MTZJ6R2
D507	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D510	SWITCHING DIODE 1SS400	QD1Z001SS400
D605⚠	DIODE 1N5397(FORMING B322-	NDWZ001N5397
D606⚠	DIODE 1N5397(FORMING B322-	NDWZ001N5397
D607⚠	DIODE 1N5397(FORMING B322-	NDWZ001N5397
D608⚠	DIODE 1N5397(FORMING B322-	NDWZ001N5397
D609	ZENER DIODE MTZJT-774.3B	QDTB0MTZJ4R3
D611⚠	ZENER DIODE MTZJT-7722B	QDTB00MTZJ22
D612	PCB JUMPER D0.6-P5.0	JW5.0T
D613	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D615	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D616⚠	ZENER DIODE MTZJT-7733B	QDTB00MTZJ33
D624⚠	ZENER DIODE MTZJT-7733B	QDTB00MTZJ33
D631⚠	SCHOTTKY BARRIER DIODE ERC84-009	QDLZERC84009
D632⚠	DIODE FR104-B	NDLZ000FR104
D633⚠	DIODE FR154	NDLZ000FR154
D634⚠	SCHOTTKY BARRIEA DIODE 11EQS04	QD4Z011EQS04
D635⚠	DIODE FR154	NDLZ000FR154
D636⚠	DIODE FR154	NDLZ000FR154
D637	DIODE 1ZC43(Q)	QDLZ001ZC43Q
D638⚠	RECTIFIER DIODE FR202-B/P	NDQZ000FR202
D639	SWITCHING DIODE 1SS400	QD1Z001SS400
D640	RECTIFIER DIODE 1N4005	NDQZ001N4005
D641	SWITCHING DIODE 1SS400	QD1Z001SS400
D642	SWITCHING DIODE 1SS400	QD1Z001SS400
D643	ZENER DIODE MTZJT-7715B	QDTB00MTZJ15
D644	SWITCHING DIODE 1SS400	QD1Z001SS400
D645	SWITCHING DIODE 1SS400	QD1Z001SS400
D647	IC SHUNT REGULATOR KIA431-AT/P	NSZBA0TJY036
D648	SWITCHING DIODE 1SS400	QD1Z001SS400
D649⚠	ZENER DIODE MTZJT-7739B	QDTB00MTZJ39
D650	SWITCHING DIODE 1SS400	QD1Z001SS400
D651	SWITCHING DIODE 1SS400	QD1Z001SS400
D652	SWITCHING DIODE 1SS400	QD1Z001SS400
D653	SWITCHING DIODE 1SS400	QD1Z001SS400
D654	ZENER DIODE MTZJT-7733C	QDTC00MTZJ33
D655	SWITCHING DIODE 1SS400	QD1Z001SS400
D656	SCHOTTKY BARRIEA DIODE 11EQS04	QD4Z011EQS04
D658⚠	PCB JUMPER D0.6-P5.0	JW5.0T
D659	PCB JUMPER D0.6-P5.0	JW5.0T
D660	PCB JUMPER D0.6-P5.0	JW5.0T
D663	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D664	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D681	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D682	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D781	ZENER DIODE EDZTE61 4.7B	QD1B00EDZ4R7
D801	SWITCHING DIODE 1SS400	QD1Z001SS400
D802	SWITCHING DIODE 1SS400	QD1Z001SS400
D803	ZENER DIODE MTZJT-776.2B	QDTB0MTZJ6R2
D804	SWITCHING DIODE 1SS400	QD1Z001SS400
D805	SWITCHING DIODE 1SS400	QD1Z001SS400
D806	PCB JUMPER D0.6-P5.0	JW5.0T
D1201	ZENER DIODE MTZJT-772.2B	QDTB0MTZJ2R2
D1202	ZENER DIODE MTZJT-773.9B	QDTB0MTZJ3R9
D1205	ZENER DIODE MTZJT-774.7B	QDTB0MTZJ4R7
D1206	SCHOTTKY BARRIEA DIODE 11EQS04	QD4Z011EQS04
D1207	SWITCHING DIODE 1SS400	QD1Z001SS400
D1208	SCHOTTKY BARRIEA DIODE 11EQS04	QD4Z011EQS04
D1209	IC TL431ACDBVR	NSZBA0TTY116
D1301	ZENER DIODE MTZJT-773.9B	QDTB0MTZJ3R9
D1601⚠	SCHOTTKY BARRIEA DIODE 11EQS04	QD4Z011EQS04
D1602⚠	RECTIFIER DIODE FR202-B/P	NDQZ000FR202
D1603	SWITCHING DIODE 1SS400	QD1Z001SS400
D1604	SWITCHING DIODE 1SS400	QD1Z001SS400
D1651	ZENER DIODE MTZJT-775.6C	QDTC0MTZJ5R6
D1652	IC SHUNT REGULATOR KIA431-AT/P	NSZBA0TJY036
D1653	SWITCHING DIODE 1SS400	QD1Z001SS400
D1654	RECTIFIER DIODE ERA15-02	AERA1502****
D1655	SWITCHING DIODE 1SS400	QD1Z001SS400
D1656	ZENER DIODE MTZJT-773.9B	QDTB0MTZJ3R9
D1657	IC SHUNT REGULATOR KIA431-AT/P	NSZBA0TJY036
D1660	PCB JUMPER D0.6-P5.0	JW5.0T
D1661	METAL OXIDE FILM RES. 1W J 1.2 Ω	RN011R2ZU001
D1663	CARBON RES. 1/4W J 6.8k Ω	RCX4JATZ0682
D1664	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1665	METAL OXIDE FILM RES. 1W J 2.7 Ω	RN012R7ZU001
D1666	METAL OXIDE FILM RES. 1W J 2.7 Ω	RN012R7ZU001
ICS		
IC31	IC VIF/SIF M61116FP TF0G	QSZBA0SHT034
IC601⚠	PHOTOCOUPLER LTV-817C-F	NPEC0LTV817F
IC602	VOLTAGE REGULATOR LD1117SC-R	NSZBA0TSS229
IC603	VOLTAGE REGULATOR LD1117SC-R	NSZBA0TSS229
IC605	IC VOLTAGE REGULATOR 5V KIA7805API/P	NSZBA0SJY041
IC606⚠	IC VOLTAGE REGULATOR 5V KIA7805API/P	NSZBA0SJY041
IC781	IC SWITCH TC4053BF(EL N F)	QSZBA0TTS163
IC801	IC AN17812A	QSZBA0SMS017
IC851	IC MTS DECORDER AN5832SA-E1V	QSZBA0TMS003
IC852	IC SWITCHING TC4052BF(ELNF)	QSZBA0TTS162
IC1201	RESET IC IC-PST9223NR	QSZBA0TMM006
IC1202	IC DVP R8A01027A93FP RF0Z	QSZAA0RHT125
IC1205	IC EEPROM(32K) BR24L32F-WE2	QSZBA0TRM067
IC1207	IC TL3472CDR	NSZBA0TTY115
IC1211	IC RESET BU4223G-TR 5PIN	QSZBA0TRM103
IC1652	VOLTAGE REGULATOR PQ070XF01SZH	QSZBA0SSH054
COILS		
L11	INDUCTOR 22μH-K-5FT	LLARKBSTU220
L12	INDUCTOR 22μH-K-5FT	LLARKBSTU220

Ref. No.	Description	Part No.
L13	INDUCTOR 0.47µH-J-26T	LLAXJATTUR47
L21	INDUCTOR 100µH-K-5FT	LLARKBSTU101
L22	INDUCTOR 150µH-J-26T	LLAXJATTU151
L31	INDUCTOR 22µH-K-5FT	LLARKBSTU220
L32	INDUCTOR 18µH-J-26T	LLAXJATTU180
L601⚠	LINE FILTER 5.0MH 6Y075	LLBG00ZKT004
L631	INDUCTOR 47µH-K-5FT	LLARKBSTU470
L632	INDUCTOR 47µH-K-5FT	LLARKBSTU470
L701	INDUCTOR 22µH-K-5FT	LLARKBSTU220
L781	PCB JUMPER D0.6-P5.0	JW5.0T
L851	PCB JUMPER D0.6-P5.0	JW5.0T
L1239	INDUCTOR CHIP LK16081R0K-T 1.0µH	LLACKB3TU1R0
L1240	INDUCTOR CHIP LK16081R0K-T 1.0µH	LLACKB3TU1R0
L1241	INDUCTOR CHIP LK16081R0K-T 1.0µH	LLACKB3TU1R0
L1243	INDUCTOR CHIP LK16081R0K-T 1.0µH	LLACKB3TU1R0
L1245	INDUCTOR CHIP LK16081R0K-T 1.0µH	LLACKB3TU1R0
L1246	INDUCTOR CHIP LK16081R0K-T 1.0µH	LLACKB3TU1R0
L1301	INDUCTOR 22µH-J-26T	LLAXJATTU220
L1701	INDUCTOR 0.47µH-J-26T	LLAXJATTUR47
	TRANSISTORS	
Q31	RES. BUILT-IN TRANSISTOR BA1F4M-T	QQSZ00BA1F4M
Q401	NPN TRANSISTOR POWER 2SC4881F HFE MAX320	QQWZ2SC4881F
Q402	TRANSISTOR 2SA950-O (TE2 F T)	QQS002SA950F
Q403	TRANSISTOR 2SC4081 T106 Q	QQ1Q02SC4081
Q501	TRANSISTOR 2SA1175(F)	QQSF02SA1175
Q502	RES. BUILT-IN TRANSISTOR BA1F4M-T	QQSZ00BA1F4M
Q503	TRANSISTOR 2SC2120-O(TE2 F T)	QQS02SC2120F
Q504	TRANSISTOR 2SA1175(F)	QQSF02SA1175
Q505	RES. BUILT-IN TRANSISTOR BA1F4M-T	QQSZ00BA1F4M
Q506	TRANSISTOR 2SC2785(F)	QQSF02SC2785
Q507	TRANSISTOR 2SC2785(F)	QQSF02SC2785
Q601⚠	FET 2SK3869(Q)	QFWZ2SK3869Q
Q603⚠	TRANSISTOR 2SC2120-O(TE2 F T)	QQS02SC2120F
Q632	TRANSISTOR 2SC2785(F)	QQSF02SC2785
Q707	TRANSISTOR 2SC4081 T106 Q	QQ1Q02SC4081
Q708	TRANSISTOR 2SC4081 T106 Q	QQ1Q02SC4081
Q802	TRANSISTOR 2SC2785(F)	QQSF02SC2785
Q804	TRANSISTOR 2SC2785(F)	QQSF02SC2785
Q805	RES. BUILT-IN TRANSISTOR BA1F4M-T	QQSZ00BA1F4M
Q1024	TRANSISTOR IMZ4T108	QQ1Z00001MZ4
Q1204	FET 2SK3018 T106	QF1Z02SK3018
Q1651	TRANSISTOR 2SA1175(F)	QQSF02SA1175
Q1652	RES. BUILT-IN TRANSISTOR BA1F4M-T	QQSZ00BA1F4M
Q1653	TRANSISTOR 2SC2785(F)	QQSF02SC2785
Q1654	TRANSISTOR KTC3199-GR-AT/P	NQS4KTC3199P
Q1655	RES. BUILT-IN TRANSISTOR BA1F4M-T	QQSZ00BA1F4M
Q1656	TRANSISTOR 2SD400(F)	QQUF002SD400
Q1657	TRANSISTOR 2SC2785(F)	QQSF02SC2785
Q1701	TRANSISTOR 2SC4081 T106 Q	QQ1Q02SC4081
	RESISTORS	
R11	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R12	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R15	CHIP RES. 1/10W J 4.7k Ω	RRXAJR5Z0472
R21	CHIP RES. 1/10W J 270k Ω	RRXAJR5Z0274
R23	CHIP RES. 1/10W J 2.2k Ω	RRXAJR5Z0222
R24	CHIP RES. 1/10W J 820k Ω	RRXAJR5Z0824
R34	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R36	CARBON RES. 1/4W J 12k Ω	RCX4JATZ0123
R38	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R40	CHIP RES. 1/10W J 15k Ω	RRXAJR5Z0153
R42	CHIP RES. 1/10W J 220 Ω	RRXAJR5Z0221
R46	CHIP RES. 1/10W J 1k Ω	RRXAJR5Z0102

Ref. No.	Description	Part No.
R48	PCB JUMPER D0.6-P5.0	JW5.0T
R49	CHIP RES. 1/10W J 1.8k Ω	RRXAJR5Z0182
R401	CHIP RES. 1/10W J 1.5k Ω	RRXAJR5Z0152
R402	CARBON RES. 1/4W J 27k Ω	RCX4JATZ0273
R403	CARBON RES. 1/4W J 47 Ω	RCX4JATZ0470
R404	CARBON RES. 1/4W J 5.6k Ω	RCX4JATZ0562
R406	CHIP RES. 1/10W J 3.3k Ω	RRXAJR5Z0332
R407	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R408	CARBON RES. 1/4W J 820 Ω	RCX4JATZ0821
R414	CARBON RES. 1/4W J 680 Ω	RCX4JATZ0681
R415	CARBON RES. 1/4W J 47 Ω	RCX4JATZ0470
R416	CARBON RES. 1/4W J 33 Ω	RCX4JATZ0330
R417	CARBON RES. 1/4W J 33 Ω	RCX4JATZ0330
R419	CARBON RES. 1/4W J 33 Ω	RCX4JATZ0330
R502	CHIP RES. 1/10W J 3.3k Ω	RRXAJR5Z0332
R503	CARBON RES. 1/4W J 27k Ω	RCX4JATZ0273
R504	CARBON RES. 1/4W J 1.5k Ω	RCX4JATZ0152
R505	CHIP RES. 1/10W J 22k Ω	RRXAJR5Z0223
R507	PCB JUMPER D0.6-P5.0	JW5.0T
R509	CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
R510	CARBON RES. 1/4W J 4.7k Ω	RCX4JATZ0472
R511	CHIP RES. 1/10W J 1.5k Ω	RRXAJR5Z0152
R512	CHIP RES. 1/10W J 3.3k Ω	RRXAJR5Z0332
R513	CHIP RES. 1/10W J 27k Ω	RRXAJR5Z0273
R514	CHIP RES. 1/10W F 10k Ω	RRXAFR5H1002
R515	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R516	CHIP RES. 1/10W F 3k Ω	RRXAFR5H3001
R517	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R518	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R519	CARBON RES. 1/4W J 220 Ω	RCX4JATZ0221
R520	CHIP RES. 1/10W J 56k Ω	RRXAJR5Z0563
R521	CHIP RES. 1/10W J 47k Ω	RRXAJR5Z0473
R526	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R529	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R533	CHIP RES. 1/10W J 3.3k Ω	RRXAJR5Z0332
R601⚠	CEMENT RES. 3W K 1.2 Ω	RW031R2PG007
R603	CARBON RES. 1/4W J 390k Ω	RCX4JATZ0394
R604	CARBON RES. 1/4W J 390k Ω	RCX4JATZ0394
R605	CARBON RES. 1/4W J 390k Ω	RCX4JATZ0394
R607	CARBON RES. 1/4W J 180 Ω	RCX4JATZ0181
R608	CARBON RES. 1/4W J 180 Ω	RCX4JATZ0181
R609	CARBON RES. 1/4W J 390k Ω	RCX4JATZ0394
R610	CARBON RES. 1/4W J 180 Ω	RCX4JATZ0181
R613⚠	METAL OXIDE FILM RES. 2W J 0.47 Ω	RN02R47ZU001
R620	PCB JUMPER D0.6-P5.0	JW5.0T
R621	CARBON RES. 1/4W J 1.2k Ω	RCX4JATZ0122
R623	CARBON RES. 1/4W J 1.8k Ω	RCX4JATZ0182
R631	CARBON RES. 1/4W J 12k Ω	RCX4JATZ0123
R632⚠	CHIP RES. 1/10W J 22k Ω	RRXAJR5Z0223
R633	CARBON RES. 1/4W J 12k Ω	RCX4JATZ0123
R635	CARBON RES. 1/4W J 6.8k Ω	RCX4JATZ0682
R636	CARBON RES. 1/4W J 22k Ω	RCX4JATZ0223
R638	CARBON RES. 1/4W J 1 Ω	RCX4JATZ01R0
R639	CHIP RES. 1/10W F 1.1k Ω	RRXAFR5H1101
R640	CHIP RES. 1/10W F 1.8k Ω	RRXAFR5H1801
R641	CHIP RES. 1/10W F 910 Ω	RRXAFR5H9100
R642	CHIP RES. 1/10W F 180 Ω	RRXAFR5H1800
R645	CHIP RES. 1/10W F 2.2k Ω	RRXAFR5H2201
R646	CARBON RES. 1/4W J 1.2k Ω	RCX4JATZ0122
R647⚠	CHIP RES. 1/10W F 3.9k Ω	RRXAFR5H3901
R648⚠	CHIP RES. 1/10W F 3.9k Ω	RRXAFR5H3901
R649⚠	CHIP RES. 1/10W F 4.7k Ω	RRXAFR5H4701
R650⚠	CHIP RES. 1/10W F 4.7k Ω	RRXAFR5H4701

Ref. No.	Description	Part No.
R651⚠	CHIP RES. 1/10W F 1.5k Ω	RRXAFR5H1501
R652⚠	CHIP RES. 1/10W F 1.5k Ω	RRXAFR5H1501
R653⚠	CHIP RES. 1/10W F 1.5k Ω	RRXAFR5H1501
R654⚠	CHIP RES. 1/10W F 1.5k Ω	RRXAFR5H1501
R655	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R656	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R657	CARBON RES. 1/4W J 390 Ω	RCX4JATZ0391
R659⚠	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R661	CARBON RES. 1/4W J 470 Ω	RCX4JATZ0471
R663	PCB JUMPER D0.6-P5.0	JW5.0T
R664	PCB JUMPER D0.6-P5.0	JW5.0T
R665	PCB JUMPER D0.6-P5.0	JW5.0T
R667	PCB JUMPER D0.6-P5.0	JW5.0T
R669	PCB JUMPER D0.6-P5.0	JW5.0T
R670	CARBON RES. 1/4W J 220 Ω	RCX4JATZ0221
R671	CARBON RES. 1/4W J 220 Ω	RCX4JATZ0221
R704	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R707	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R708	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R709	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R711	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R713	CHIP RES. 1/10W J 18k Ω	RRXAJR5Z0183
R714	CHIP RES. 1/10W J 18k Ω	RRXAJR5Z0183
R715	CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
R716	CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
R717	CHIP RES. 1/10W J 75 Ω	RRXAJR5Z0750
R718	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R719	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R722	CHIP RES. 1/10W J 75 Ω	RRXAJR5Z0750
R723	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R725	CHIP RES. 1/10W J 75 Ω	RRXAJR5Z0750
R734	CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
R736	CHIP RES. 1/10W J 75 Ω	RRXAJR5Z0750
R738	CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
R739	CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
R742	CHIP RES. 1/10W J 75 Ω	RRXAJR5Z0750
R744	CHIP RES. 1/10W J 75 Ω	RRXAJR5Z0750
R751	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R752	CHIP RES. 1/10W J 18k Ω	RRXAJR5Z0183
R753	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R754	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R755	CHIP RES. 1/10W J 18k Ω	RRXAJR5Z0183
R756	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R759	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R782	CHIP RES. 1/10W J 100k Ω	RRXAJR5Z0104
R784	CHIP RES. 1/10W J 100k Ω	RRXAJR5Z0104
R785	CHIP RES. 1/10W J 100k Ω	RRXAJR5Z0104
R786	CHIP RES. 1/10W J 100k Ω	RRXAJR5Z0104
R787	CHIP RES. 1/10W J 100k Ω	RRXAJR5Z0104
R788	CHIP RES. 1/10W J 100k Ω	RRXAJR5Z0104
R789	CHIP RES. 1/10W J 100k Ω	RRXAJR5Z0104
R790	CHIP RES. 1/10W J 100k Ω	RRXAJR5Z0104
R791	CHIP RES. 1/10W J 100k Ω	RRXAJR5Z0104
R792	CHIP RES. 1/10W J 100k Ω	RRXAJR5Z0104
R793	CHIP RES. 1/10W J 100k Ω	RRXAJR5Z0104
R794	CHIP RES. 1/10W J 100k Ω	RRXAJR5Z0104
R798	CHIP RES. 1/10W J 1k Ω	RRXAJR5Z0102
R799	CHIP RES. 1/10W J 1k Ω	RRXAJR5Z0102
R805⚠	METAL OXIDE FILM RES. 2W J 3.9 Ω	RN023R9ZU001
R806	CHIP RES. 1/10W J 560 Ω	RRXAJR5Z0561
R807⚠	METAL OXIDE FILM RES. 2W J 3.9 Ω	RN023R9ZU001
R808	CHIP RES. 1/10W J 3.3k Ω	RRXAJR5Z0332
R809	CHIP RES. 1/10W J 4.7k Ω	RRXAJR5Z0472

Ref. No.	Description	Part No.
R810	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R811	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R813	CHIP RES. 1/10W J 47k Ω	RRXAJR5Z0473
R814	CHIP RES. 1/10W J 2.7k Ω	RRXAJR5Z0272
R815	CARBON RES. 1/4W J 180 Ω	RCX4JATZ0181
R816	CHIP RES. 1/10W J 2.7k Ω	RRXAJR5Z0272
R817	CHIP RES. 1/10W J 47k Ω	RRXAJR5Z0473
R819	CARBON RES. 1/4W J 180 Ω	RCX4JATZ0181
R820	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R822	CARBON RES. 1/4W J 22k Ω	RCX4JATZ0223
R823	CHIP RES. 1/10W J 22k Ω	RRXAJR5Z0223
R824	CHIP RES. 1/10W J 22k Ω	RRXAJR5Z0223
R825	CHIP RES. 1/10W J 22k Ω	RRXAJR5Z0223
R826	CHIP RES. 1/10W J 22k Ω	RRXAJR5Z0223
R827	CHIP RES. 1/10W J 22k Ω	RRXAJR5Z0223
R829	CHIP RES. 1/10W J 22k Ω	RRXAJR5Z0223
R830	CHIP RES. 1/10W J 22k Ω	RRXAJR5Z0223
R833	CARBON RES. 1/4W J 22k Ω	RCX4JATZ0223
R834	CHIP RES. 1/10W J 22k Ω	RRXAJR5Z0223
R837	CHIP RES. 1/10W J 1k Ω	RRXAJR5Z0102
R838	CHIP RES. 1/10W J 12k Ω	RRXAJR5Z0123
R839	CHIP RES. 1/10W J 12k Ω	RRXAJR5Z0123
R840	CHIP RES. 1/10W J 1.5k Ω	RRXAJR5Z0152
R842	CHIP RES. 1/10W J 22k Ω	RRXAJR5Z0223
R843	CHIP RES. 1/10W J 22k Ω	RRXAJR5Z0223
R844	CHIP RES. 1/10W J 2.2k Ω	RRXAJR5Z0222
R851	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R852	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R853	CHIP RES. 1/10W J 3.3k Ω	RRXAJR5Z0332
R855	CHIP RES. 1/10W J 180k Ω	RRXAJR5Z0184
R859	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R860	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R861	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R862	CHIP RES. 1/10W J 3.3k Ω	RRXAJR5Z0332
R1201	CHIP RES. 1/10W J 470 Ω	RRXAJR5Z0471
R1204	CHIP RES. 1/10W J 4.7k Ω	RRXAJR5Z0472
R1213	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R1216	CHIP RES. 1/10W J 1M Ω	RRXAJR5Z0105
R1217	CHIP RES. 1/10W J 56 Ω	RRXAJR5Z0560
R1218	CHIP RES. 1/10W J 4.7k Ω	RRXAJR5Z0472
R1219	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R1220	CHIP RES. 1/10W J 5.6k Ω	RRXAJR5Z0562
R1221	CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
R1223	CHIP RES. 1/10W J 5.6k Ω	RRXAJR5Z0562
R1224	CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
R1226	CHIP RES. 1/10W J 33 Ω	RRXAJR5Z0330
R1231	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R1233	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R1234	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R1235	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R1237	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R1242	CHIP RES. 1/10W F 750 Ω	RRXAFR5H7500
R1243	CHIP RES. 1/10W F 200 Ω	RRXAFR5H2000
R1244	CHIP RES. 1/10W F 160 Ω	RRXAFR5H1600
R1245	CHIP RES. 1/10W F 750 Ω	RRXAFR5H7500
R1246	CHIP RES. 1/10W F 150 Ω	RRXAFR5H1500
R1247	CHIP RES. 1/10W F 750 Ω	RRXAFR5H7500
R1248	CHIP RES. 1/10W F 160 Ω	RRXAFR5H1600
R1249	CHIP RES. 1/10W F 200 Ω	RRXAFR5H2000
R1250	CHIP RES. 1/10W F 750 Ω	RRXAFR5H7500
R1251	CHIP RES.(1608) 1/10W F 68 Ω	RRXAFR5H68R0
R1254	CHIP RES. 1/10W J 18k Ω	RRXAJR5Z0183
R1255	CHIP RES. 1/10W J 22k Ω	RRXAJR5Z0223

Ref. No.	Description	Part No.
R1256	CHIP RES. 1/10W J 2.7k Ω	RRXAJR5Z0272
R1264	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1265	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1268	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1269	CHIP RES. 1/10W J 68k Ω	RRXAJR5Z0683
R1270	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1271	CHIP RES. 1/10W J 2.2k Ω	RRXAJR5Z0222
R1272	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R1274	CHIP RES. 1/10W J 39k Ω	RRXAJR5Z0393
R1275	CHIP RES. 1/10W J 4.3k Ω	RRXAJR5Z0432
R1276	CHIP RES. 1/10W J 15k Ω	RRXAJR5Z0153
R1277	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1278	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R1279	CHIP RES. 1/10W J 75 Ω	RRXAJR5Z0750
R1301	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1302	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1303	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1304	CHIP RES. 1/10W J 56 Ω	RRXAJR5Z0560
R1305	CHIP RES. 1/10W J 56 Ω	RRXAJR5Z0560
R1306	CHIP RES. 1/10W J 56 Ω	RRXAJR5Z0560
R1307	CHIP RES. 1/10W J 56 Ω	RRXAJR5Z0560
R1308	CHIP RES. 1/10W J 56 Ω	RRXAJR5Z0560
R1309	CHIP RES. 1/10W J 56 Ω	RRXAJR5Z0560
R1310	CHIP RES. 1/10W J 56 Ω	RRXAJR5Z0560
R1311	CHIP RES. 1/10W J 56 Ω	RRXAJR5Z0560
R1312	CHIP RES. 1/10W J 56 Ω	RRXAJR5Z0560
R1313	CHIP RES. 1/10W J 56 Ω	RRXAJR5Z0560
R1314	CHIP RES. 1/10W J 56 Ω	RRXAJR5Z0560
R1315	CHIP RES. 1/10W J 56 Ω	RRXAJR5Z0560
R1316	CHIP RES. 1/10W J 56 Ω	RRXAJR5Z0560
R1317	CHIP RES. 1/10W J 56 Ω	RRXAJR5Z0560
R1318	CHIP RES. 1/10W J 56 Ω	RRXAJR5Z0560
R1319	CHIP RES. 1/10W J 56 Ω	RRXAJR5Z0560
R1320	CHIP RES. 1/10W J 56 Ω	RRXAJR5Z0560
R1321	CHIP RES. 1/10W J 56 Ω	RRXAJR5Z0560
R1322	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1323	CHIP RES. 1/10W J 56 Ω	RRXAJR5Z0560
R1324	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1325	CHIP RES. 1/10W J 56 Ω	RRXAJR5Z0560
R1326	CHIP RES. 1/10W J 56 Ω	RRXAJR5Z0560
R1327	CHIP RES. 1/10W J 56 Ω	RRXAJR5Z0560
R1328	CHIP RES. 1/10W J 56 Ω	RRXAJR5Z0560
R1329	CHIP RES. 1/10W J 56 Ω	RRXAJR5Z0560
R1330	CHIP RES. 1/10W J 56 Ω	RRXAJR5Z0560
R1331	CHIP RES. 1/10W J 56 Ω	RRXAJR5Z0560
R1332	CHIP RES. 1/10W J 56 Ω	RRXAJR5Z0560
R1333	CHIP RES. 1/10W J 56 Ω	RRXAJR5Z0560
R1334	CHIP RES. 1/10W J 56 Ω	RRXAJR5Z0560
R1335	CHIP RES. 1/10W J 56 Ω	RRXAJR5Z0560
R1336	CHIP RES. 1/10W J 56 Ω	RRXAJR5Z0560
R1337	CHIP RES. 1/10W J 56 Ω	RRXAJR5Z0560
R1338	CHIP RES. 1/10W J 56 Ω	RRXAJR5Z0560
R1339	CHIP RES. 1/10W J 56 Ω	RRXAJR5Z0560
R1340	CHIP RES. 1/10W J 56 Ω	RRXAJR5Z0560
R1341	CHIP RES. 1/10W J 56 Ω	RRXAJR5Z0560
R1342	CHIP RES. 1/10W J 56 Ω	RRXAJR5Z0560
R1343	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1344	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1345	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1346	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1347	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R1348	CHIP RES. 1/10W J 47 Ω	RRXAJR5Z0470
R1349	CHIP RES. 1/10W J 47 Ω	RRXAJR5Z0470

Ref. No.	Description	Part No.
R1350	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R1351	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R1352	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R1353	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R1354	CHIP RES. 1/10W J 1k Ω	RRXAJR5Z0102
R1355	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R1356	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R1357	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R1358	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R1359	CHIP RES. 1/10W J 47 Ω	RRXAJR5Z0470
R1360	CARBON RES. 1/4W J 470 Ω	RCX4JATZ0471
R1361	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R1362	CHIP RES. 1/10W J 100k Ω	RRXAJR5Z0104
R1363	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R1364	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R1365	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1366	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1367	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1368	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1369	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1370	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1601	CARBON RES. 1/4W J 1.2k Ω	RCX4JATZ0122
R1651	CHIP RES. 1/10W J 47k Ω	RRXAJR5Z0473
R1653	CARBON RES. 1/4W J 180 Ω	RCX4JATZ0181
R1654	CARBON RES. 1/4W J 10 Ω	RCX4JATZ0100
R1655	CHIP RES. 1/10W J 22k Ω	RRXAJR5Z0223
R1656	CARBON RES. 1/4W J 390 Ω	RCX4JATZ0391
R1657	CARBON RES. 1/4W J 390 Ω	RCX4JATZ0391
R1659	CARBON RES. 1/4W J 8.2 Ω	RCX4JATZ08R2
R1660	CARBON RES. 1/4W J 560 Ω	RCX4JATZ0561
R1662	CARBON RES. 1/4W J 2.7 Ω	RCX4JATZ02R7
R1663	CARBON RES. 1/4W J 2.7 Ω	RCX4JATZ02R7
R1664	CHIP RES. 1/10W F 18k Ω	RRXAFR5H1802
R1665	CHIP RES. 1/10W F 56k Ω	RRXAFR5H5602
R1666	PCB JUMPER D0.6-P5.0	JW5.0T
R1667	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1668	CHIP RES. 1/10W J 390 Ω	RRXAJR5Z0391
R1670	CHIP RES. 1/10W F 8.2k Ω	RRXAFR5H8201
R1671	CARBON RES. 1/4W J 2.2k Ω	RCX4JATZ0222
R1672	CHIP RES. 1/10W F 220 Ω	RRXAFR5H2200
R1673	CHIP RES. 1/10W F 4.7k Ω	RRXAFR5H4701
R1674	CHIP RES. 1/10W F 5.6k Ω	RRXAFR5H5601
R1675	CHIP RES. 1/10W F 15k Ω	RRXAFR5H1502
R1679	CARBON RES. 1/4W J 1.5 Ω	RCX4JATZ01R5
R1680	CARBON RES. 1/4W J 220 Ω	RCX4JATZ0221
R1681	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R1683	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R1701	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R1704	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R1705	CHIP RES. 1/10W J 2k Ω	RRXAJR5Z0202
R1706	CHIP RES. 1/10W J 2.2k Ω	RRXAJR5Z0222
R1707	CHIP RES. 1/10W J 2.2k Ω	RRXAJR5Z0222
R1708	CHIP RES. 1/10W J 220 Ω	RRXAJR5Z0221
R1709	CHIP RES. 1/10W J 75 Ω	RRXAJR5Z0750
R1802	CHIP RES. 1/10W J 1.8k Ω	RRXAJR5Z0182
R1803	CHIP RES. 1/10W J 1.8k Ω	RRXAJR5Z0182
R1805	CHIP RES. 1/10W J 2.2k Ω	RRXAJR5Z0222
R1806	CHIP RES. 1/10W J 2.2k Ω	RRXAJR5Z0222
	MISCELLANEOUS	
AC601⚠	AC CORD LP-11W&PT218P-K90A&S	WAC0172LW020
B7	SHIELD BOX TOP L2500UA	1EM321728
B22	POW HEAT SINK PKG ASSEMBLY L3201UB	1EM420650

Ref. No.	Description	Part No.
BC10	PCB JUMPER D0.6-P5.0	JW5.0T
BC11	PCB JUMPER D0.6-P5.0	JW5.0T
BC602	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC1651	PCB JUMPER D0.6-P5.0	JW5.0T
BC1653	PCB JUMPER D0.6-P5.0	JW5.0T
BC1655	PCB JUMPER D0.6-P5.0	JW5.0T
CF31	CERAMIC FILTER SFSRA4M50CF00-B0	FBB455PMR004
F601⚠	FUSE STC4A125V U/CT	PAGE20CW3402
FH601	FUSE HOLDER MSF-015 LF (B110)	XH01Z00LY002
FH602	FUSE HOLDER MSF-015 LF (B110)	XH01Z00LY002
GP642⚠	GAP. FNR-G3.10D	FAZ000LD6005
J123	CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
JK701	JACK SW DIN PCB L DIN-435C	JYEL040YUQ02
JK703	JACK RCA PCB L RCA-112(2)-04(YL)	JXRL010YUQ10
JK704	JACK RCA PCB L RCA-112(2)-04(WH)	JXRL010YUQ11
JK705	JACK SW RCA PCB L RCA-112-03(RD)	JYRL010YUQ02
JK706	RCA JACK(GREEN) MTJ-032-08B-41 FE(	JXRL010LY126
JK707	RCA JACK(BLUE) MTJ-032-08B-44 FE	JXRL010LY130
JK708	JACK RCA PCB L RCA 112(2) 04(RD)	JXRL010YUQ16
JK709	JACK RCA PCB L RCA-112(2)-04(WH)	JXRL010YUQ11
JK710	JACK SW RCA PCB L RCA-112-03(RD)	JYRL010YUQ02
JK801	JACK SW HPEP SML PCB L PJ-350	JYSL010YUQ03
JK1701	RCA JACK(ORANGE) MTJ-032-08B-40 FE	JXRL010LY128
JS701	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
JS822	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
JS1654	PCB JUMPER D0.6-P17.5	JW17.5T
L16	SCREW B-TIGHT D3X8 BIND HEAD+	GBJB3080
SA601⚠	SURGE ABSORBER 470V+-10PER	NVQZ10D471KB
SF11	FILTER CERAMIC BAND PASS SAFHS45M7VAJZ00B05	FBB456LMR004
T601⚠	TRANS POWER 6732	LTT2PC0KT011
TP1701	PCB JUMPER D0.6-P5.0	JW5.0T
TP1702	PCB JUMPER D0.6-P5.0	JW5.0T
TP1801	PCB JUMPER D0.6-P5.0	JW5.0T
TP1802	PCB JUMPER D0.6-P5.0	JW5.0T
TP1803	PCB JUMPER D0.6-P5.0	JW5.0T
TP401	PCB JUMPER D0.6-P30.0	JW30.0T
TU1	TUNER UNIT TEFH9-002A	UTUNNTUAL045
X1201	XTAL OSCILLATOR 27.00MHz 15PPM	FXC276LLN002

IR SENSOR CBA

Ref. No.	Description	Part No.
	IR SENSOR CBA Consists of the following:	----------
	CAPACITORS	
C102	CHIP CERAMIC CAP. B K 1μF/ 6.3V	CHD0KK30B105
C104	CHIP CERAMIC CAP. B K 1μF/ 6.3V	CHD0KK30B105
	RESISTORS	
R123	CHIP RES. 1/10W J 68 Ω	RRXAJR5Z0680
R124	CHIP RES. 1/10W J 68 Ω	RRXAJR5Z0680
	MISCELLANEOUS	
CLN105	WIRE ASSEMBLY 5PIN SENSOR 5PIN/200MM	WX1L2600-008
RCV102	REMOCON RECEIVE UNIT KSM-602SR2E-2	USESJRSKK045

FUNCTION CBA

Ref. No.	Description	Part No.
	FUNCTION CBA Consists of the following:	1ESA13270
	CAPACITORS	
C903	CERAMIC CAP.(AX) B 0.01μF/ 50V	CCK1JKT0B103
C905	CERAMIC CAP.(AX) B 0.01μF/ 50V	CCK1JKT0B103

Ref. No.	Description	Part No.
	RESISTORS	
R901	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R902	CARBON RES. 1/4W J 47 Ω	RCX4JATZ0470
R903	CARBON RES. 1/4W J 1.5k Ω	RCX4JATZ0152
R904	CARBON RES. 1/4W J 1.5k Ω	RCX4JATZ0152
R905	CARBON RES. 1/4W J 2.2k Ω	RCX4JATZ0222
R906	CARBON RES. 1/4W J 2.7k Ω	RCX4JATZ0272
R907	CARBON RES. 1/4W J 4.7k Ω	RCX4JATZ0472
R908	CARBON RES. 1/4W J 6.8k Ω	RCX4JATZ0682
R909	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R910	CARBON RES. 1/4W J 47 Ω	RCX4JATZ0470
R911	CARBON RES. 1/4W J 1.5k Ω	RCX4JATZ0152
R912	CARBON RES. 1/4W J 1.5k Ω	RCX4JATZ0152
R913	CARBON RES. 1/4W J 2.2k Ω	RCX4JATZ0222
R914	CARBON RES. 1/4W J 2.7k Ω	RCX4JATZ0272
R915	CARBON RES. 1/4W J 4.7k Ω	RCX4JATZ0472
	SWITCHES	
SW901	TACT SWITCH SKQSAB	SST0101AL038
SW902	TACT SWITCH SKQSAB	SST0101AL038
SW903	TACT SWITCH SKQSAB	SST0101AL038
SW904	TACT SWITCH SKQSAB	SST0101AL038
SW905	TACT SWITCH SKQSAB	SST0101AL038
SW907	TACT SWITCH SKQSAB	SST0101AL038
SW911	TACT SWITCH SKQSAB	SST0101AL038
SW914	TACT SWITCH SKQSAB	SST0101AL038
SW915	TACT SWITCH SKQSAB	SST0101AL038
SW916	TACT SWITCH SKQSAB	SST0101AL038
	MISCELLANEOUS	
CLN904	WIRE ASSEMBLY 4PIN SW 4PIN/245MM	WX1L2600-007

INVERTER CBA

Ref. No.	Description	Part No.
	INVERTER CBA Consists of the following:	1ESA13314
	CAPACITORS	
C301	ELECTROLYTIC CAP. 47μF/ 16V M	CE1CMASDL470
C302	CHIP CERAMIC CAP.(1608) B K 5600pF/50V	CHD1JK30B562
C303	ELECTROLYTIC CAP. 220μF/ 16V M	CE1CMASDL221
C321	CAP CHIP 5pF 3KV C XC	CA3F5R05M016
C322	CHIP CERAMIC CAP.(1608) B K 0.01μF/ 50V	CHD1JK30B103
C323	CAP CHIP 5pF 3KV C XC	CA3F5R05M016
C325	CHIP CERAMIC CAP.(1608) B K 0.01μF/ 50V	CHD1JK30B103
C326	ELECTROLYTIC CAP. 10μF/ 50V M	CE1JMASDL100
C327	CHIP CERAMIC CAP.(1608) B K 0.01μF/ 50V	CHD1JK30B103
C328	ELECTROLYTIC CAP. 10μF/ 50V M	CE1JMASDL100
C329	CHIP CERAMIC CAP.(1608) B K 0.01μF/ 50V	CHD1JK30B103
C330	CAP METALIZED FILM 0.068μF/ 250V/J	CT2E683MS041
C331	ELECTROLYTIC CAP. 22μF/ 50V M	CE1JMASDL220
C332	CHIP CERAMIC CAP.(1608) B K 0.01μF/ 50V	CHD1JK30B103
C341	CAP CHIP 5pF 3KV C XC	CA3F5R05M016
C342	CHIP CERAMIC CAP.(1608) B K 0.01μF/ 50V	CHD1JK30B103
C343	CAP CHIP 5pF 3KV C XC	CA3F5R05M016
C345	CHIP CERAMIC CAP.(1608) B K 0.01μF/ 50V	CHD1JK30B103
C346	ELECTROLYTIC CAP. 10μF/ 50V M	CE1JMASDL100
C347	CHIP CERAMIC CAP.(1608) B K 0.01μF/ 50V	CHD1JK30B103
C348	ELECTROLYTIC CAP. 10μF/ 50V M	CE1JMASDL100
C349	CHIP CERAMIC CAP.(1608) B K 0.01μF/ 50V	CHD1JK30B103
C350	CAP METALIZED FILM 0.068μF/ 250V/J	CT2E683MS041
C351	ELECTROLYTIC CAP. 22μF/ 50V M	CE1JMASDL220
C361	CAP CHIP 5pF 3KV C XC	CA3F5R05M016
C362	CHIP CERAMIC CAP.(1608) B K 0.01μF/ 50V	CHD1JK30B103
C363	CAP CHIP 5pF 3KV C XC	CA3F5R05M016

Ref. No.	Description	Part No.
C365	CHIP CERAMIC CAP.(1608) B K 0.01μF/ 50V	CHD1JK30B103
C366	ELECTROLYTIC CAP. 10μF/ 50V M	CE1JMASDL100
C367	CHIP CERAMIC CAP.(1608) B K 0.01μF/ 50V	CHD1JK30B103
C368	ELECTROLYTIC CAP. 10μF/ 50V M	CE1JMASDL100
C369	CHIP CERAMIC CAP.(1608) B K 0.01μF/ 50V	CHD1JK30B103
C370	CAP METALIZED FILM 0.068μF/ 250V/J	CT2E683MS041
C371	ELECTROLYTIC CAP. 22μF/ 50V M	CE1JMASDL220
	CONNECTORS	
CN301	BACK LIGHT CONNECTOR 1717369-1	JB17D02AP001
CN302	BACK LIGHT CONNECTOR 1717369-1	JB17D02AP001
CN303	BACK LIGHT CONNECTOR 1717369-1	JB17D02AP001
CN304	CONNECTOR PRINT MES C/15/S/ 127301115K2	JCTWA15TG004
CN310	CONNECTOR PRINT OSU 008283021200000S+	J383C02UG004
	DIODES	
D306	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D307	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D308	ZENER DIODE MTZJT-776.2B	QDTB0MTZJ6R2
D309	ZENER DIODE MTZJT-7710B	QDTB00MTZJ10
D321	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D322	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D323	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D324	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D325	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D326	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D327	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D328	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D329	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D330	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D331	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D332	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D333	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D334	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D341	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D342	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D343	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D344	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D345	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D346	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D347	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D348	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D349	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D350	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D351	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D352	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D353	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D354	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D361	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D362	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D363	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D364	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D365	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D366	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D367	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D368	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D369	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D370	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D371	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D372	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D373	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D374	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133

Ref. No.	Description	Part No.
	COILS	
L301	COIL CHOKE ELC10D101EL	LLC101KMS003
L302	COIL CHOKE ELC10D101EL	LLC101KMS003
L303	COIL CHOKE ELC10D101EL	LLC101KMS003
	TRANSISTORS	
Q304	TRANSISTOR 2SC2785(F)	QQSF02SC2785
Q305	TRANSISTOR 2SA1175(F)	QQSF02SA1175
Q306	TRANSISTOR 2SC2120-O(TE2 F T)	QQS02SC2120F
Q321⚠	FET MOS SMD HAT2215R01-EL-E	QF2ZHAT2215R
Q322	TRANSISTOR 2SC2785(F)	QQSF02SC2785
Q323	TRANSISTOR 2SC2785(F)	QQSF02SC2785
Q324	TRANSISTOR 2SC2785(F)	QQSF02SC2785
Q325	TRANSISTOR 2SC2785(F)	QQSF02SC2785
Q341⚠	FET MOS SMD HAT2215R01-EL-E	QF2ZHAT2215R
Q342	TRANSISTOR 2SC2785(F)	QQSF02SC2785
Q343	TRANSISTOR 2SC2785(F)	QQSF02SC2785
Q344	TRANSISTOR 2SC2785(F)	QQSF02SC2785
Q361⚠	FET MOS SMD HAT2215R01-EL-E	QF2ZHAT2215R
Q362	TRANSISTOR 2SC2785(F)	QQSF02SC2785
Q363	TRANSISTOR 2SC2785(F)	QQSF02SC2785
Q364	TRANSISTOR 2SC2785(F)	QQSF02SC2785
	RESISTORS	
R309	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R310	CARBON RES. 1/4W J 1.2k Ω	RCX4JATZ0122
R311	CHIP RES. 1/10W J 47 Ω	RRXAJR5Z0470
R312	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R313	CHIP RES. 1/10W J 33k Ω	RRXAJR5Z0333
R318	CARBON RES. 1/4W J 1.2k Ω	RCX4JATZ0122
R321	CHIP RES. 1/10W J 390 Ω	RRXAJR5Z0391
R322	CHIP RES. 1/10W J 390 Ω	RRXAJR5Z0391
R323	CHIP RES. 1/10W J 1k Ω	RRXAJR5Z0102
R324	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R325	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R326	CHIP RES. 1/10W J 1k Ω	RRXAJR5Z0102
R327	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R328	CHIP RES. 1/10W J 22 Ω	RRXAJR5Z0220
R329	CHIP RES. 1/10W J 22 Ω	RRXAJR5Z0220
R330	CHIP RES. 1/10W J 4.7k Ω	RRXAJR5Z0472
R331	CHIP RES. 1/10W J 4.7k Ω	RRXAJR5Z0472
R332	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R333	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R334	CHIP RES. 1/10W J 15k Ω	RRXAJR5Z0153
R335	CHIP RES. 1/10W J 2.2k Ω	RRXAJR5Z0222
R336	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R337	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R341	CHIP RES. 1/10W J 390 Ω	RRXAJR5Z0391
R342	CHIP RES. 1/10W J 390 Ω	RRXAJR5Z0391
R343	CHIP RES. 1/10W J 1k Ω	RRXAJR5Z0102
R344	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R345	CHIP RES. 1/10W J 1k Ω	RRXAJR5Z0102
R346	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R347	CHIP RES. 1/10W J 22 Ω	RRXAJR5Z0220
R348	CHIP RES. 1/10W J 22 Ω	RRXAJR5Z0220
R349	CHIP RES. 1/10W J 4.7k Ω	RRXAJR5Z0472
R350	CHIP RES. 1/10W J 4.7k Ω	RRXAJR5Z0472
R351	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R352	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R353	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R356	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R357	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R361	CHIP RES. 1/10W J 390 Ω	RRXAJR5Z0391
R362	CHIP RES. 1/10W J 390 Ω	RRXAJR5Z0391

Ref. No.	Description	Part No.
R363	CHIP RES. 1/10W J 1k Ω	RRXAJR5Z0102
R364	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R365	CHIP RES. 1/10W J 1k Ω	RRXAJR5Z0102
R366	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R367	CHIP RES. 1/10W J 22 Ω	RRXAJR5Z0220
R368	CHIP RES. 1/10W J 22 Ω	RRXAJR5Z0220
R369	CHIP RES. 1/10W J 4.7k Ω	RRXAJR5Z0472
R370	CHIP RES. 1/10W J 4.7k Ω	RRXAJR5Z0472
R371	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R372	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R373	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R376	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R377	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
MISCELLANEOUS		
JS326	PCB JUMPER D0.6-P5.0	JW5.0T
JS346	PCB JUMPER D0.6-P5.0	JW5.0T
JS366	PCB JUMPER D0.6-P5.0	JW5.0T
T301⚠	TRANS INVERTER ETJV27ZJ24AC	LTZ2PC0MS003
T302⚠	TRANS INVERTER ETJV27ZJ24AC	LTZ2PC0MS003
T303⚠	TRANS INVERTER ETJV27ZJ24AC	LTZ2PC0MS003